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INIS ATOMINDEX

AN INTERNATIONAL ABSTRACTING SERVICE

ИНИС АТОМИНДЕКС

CUMULATIVE INDEX

VOLUME 10
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Part: 4
Subject Index A–L



INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1979

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* Countries marked by an asterisk are those that by the day of edition of this document had formally indicated their willingness to participate in the International Nuclear Information System (INIS).

In addition the following international and regional organizations have formally accepted an invitation to participate in INIS:

Commission of the European Communities (CEC)
 Council for Mutual Economic Assistance (CMEA)
 European Organization for Nuclear Research (CERN)
 Food and Agriculture Organization of the United Nations (FAO)
 International Atomic Energy Agency (IAEA)
 International Commission on Radiological Protection (ICRP)
 International Organization for Standardization (ISO)
 Joint Institute for Nuclear Research (JINR)
 Nuclear Energy Agency (NEA)
 Organization of African Unity (OAU)
 United Nations (UN)
 World Energy Conference (WEC)
 World Health Organization (WHO)

The Agency's Statute was approved on 23 October 1956 by the Conference on the Statute of the IAEA held at United Nations Headquarters, New York; it entered into force on 29 July 1957. The Headquarters of the Agency are situated in Vienna. Its principal objective is "to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world".

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December 1979

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INTRODUCTION

The International Nuclear Information System (INIS)

INIS is a cooperative, decentralized information system set up by the International Atomic Energy Agency and its Member States. Its purpose is to construct a data base identifying publications relating to nuclear science and its peaceful applications. Member States and cooperating international organizations scan the scientific and technical literature published within their boundaries or by them, select from it those items which fall within the subject scope of INIS¹⁾ and process the data according to the agreed standards and rules. Document descriptions, abstracts and, in certain cases, full texts of the literature are then submitted to the IAEA Headquarters, where those data are merged and the INIS output products compiled. The following services are issued:

- The INIS magnetic tape service
- INIS Atomindex: a semi-monthly abstracting journal²⁾
- INIS non-conventional literature on microfiche³⁾

Availability and price of INIS services

MAGNETIC TAPE SERVICE

This semi-monthly service, providing magnetic tapes containing all records submitted to the system, is available only to participating Member States and International Organizations. National INIS centres in many countries are utilizing INIS tapes in the provision of national information services. Available services vary from country to country and interested persons are requested to contact their national INIS Liaison Officer whose name and address appear in the list beginning on page XI.

INIS Atomindex

Available to the public on annual subscription. Prices for 1980 are:

- (a) Yearly subscription including Cumulative Indexes (by surface mail)
Austrian Schillings 3100,—
additional rate for airmail not including Cumulative Indexes (from Vienna):
Austrian Schillings 2200,—
- (b) Yearly subscription: Issues Nos. 1-24 only (by surface mail)
Austrian Schillings 2200,—
additional rate for airmail (from Vienna):
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- (c) Yearly subscription: Cumulative Indexes only (by surface mail)
Austrian Schillings 900,—
additional rate for airmail (from Vienna): at actual costs
- (d) Price per single issue of Nos. 1-24
Austrian Schillings 100,—

¹⁾ The scope of INIS is defined by the scope of the IAEA's interests. Full details of the INIS scope are printed in IAEA-INIS-3, INIS: Subject Categories and Scope Descriptions. This is a publication in the INIS Reference Series which defines the standards and rules for INIS. Copies of all documents in the INIS Reference Series are available from the IAEA, Vienna.

²⁾ INIS Atomindex is prepared from the semi-monthly INIS magnetic tapes by computer-driven photocopying methods. The bulk of the information contained in the magnetic tapes is printed in INIS Atomindex. The major exception to this are the subject descriptors, whose main use is for computer-searching. These are omitted from all INIS Atomindex entries that are accompanied by abstracts.

³⁾ In INIS, "non-conventional literature" is defined as all literature other than journal articles or commercially published books.

Orders should be sent to:

Division of Publications
International Atomic Energy Agency
P.O. Box 100
A-1400 Vienna, Austria

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UNIPUB
345 Park Avenue South
New York, N.Y. 10010

INIS NON-CONVENTIONAL LITERATURE ON MICROFICHE

Available to the public. (See also the order form printed in the back of this issue.)

Prices for 1980 are:

Standing orders: US \$ 0.30 per microfiche
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Orders should be accompanied by prepayment in the form of a cheque or in the form of IAEA Microfiche Service Coupons, and should be sent to:

INIS Clearinghouse
International Atomic Energy Agency
P.O. Box 100
A-1400 Vienna, Austria

BACK ISSUES

Back copies of most issues of INIS Atomindex published since April 1970 are still available.

| | | |
|------------------|------------------|--------------------------|
| Price per issue: | Vol. 1 to Vol. 5 | Austrian Schillings 27,— |
| | Vol. 6 | Austrian Schillings 38,— |
| | Vol. 7 to Vol. 9 | Austrian Schillings 85,— |
| | Vol. 10 | Austrian Schillings 94,— |

Orders should be sent to the Division of Publications of the IAEA. Prior to Volume 7, 1976, abstracts for most items were not printed in INIS Atomindex but were published on microfiche. Backsets of the INIS Abstracts on microfiche covering Vols. 1 to 6 of INIS Atomindex are still available from the INIS Clearinghouse. Cost is Austrian Schillings 810,— per volume.

CUMULATIVE INDEXES

Cumulative indexes to INIS Atomindex are published twice yearly covering the twelve issue indexes published in the months of January to June and July to December. The present Cumulative Index covers issues 13-24 of Vol.10 i.e. the issues published from 1 July to 15 December 1979. It consists of:

- Part 1: Personal Author Index: A-L;
- Part 2: Personal Author Index: M-Z;
- Part 3: Corporate Entry Index,
Conference Index,
Report, Standard and Patent Number Index;
- Part 4: Subject Index: A-L;
- Part 5: Subject Index: M-Z.

Previous Cumulative Indexes have been published, as follows:

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| Vol. 1, No. 1–Vol. 3, No. 4 | Austrian Schillings 216,– |
| Vol. 3, Nos. 5–12 | Austrian Schillings 144,– |
| Vol. 4, Nos. 1–12 | Austrian Schillings 90,– |
| Vol. 4, Nos. 13–24 | Austrian Schillings 90,– |
| Vol. 5, Nos. 1–12 | Austrian Schillings 135,– |
| Vol. 5, Nos. 13–24 | Austrian Schillings 135,– |
| Vol. 6, Nos. 1–12 | Austrian Schillings 230,– |
| Vol. 6, Nos. 13–24 | Austrian Schillings 230,– |
| Vol. 7, Nos. 1–12 | Austrian Schillings 325,– |
| Vol. 7, Nos. 13–24 | Austrian Schillings 325,– |
| Vol. 8, Nos. 1–12 | Austrian Schillings 325,– |
| Vol. 8, Nos. 13–24 | Austrian Schillings 325,– |
| Vol. 9, Nos. 1–12 | Austrian Schillings 325,– |
| Vol. 9, Nos. 13–24 | Austrian Schillings 325,– |
| Vol. 10, Nos. 1–12 | Austrian Schillings 337,– |
| Vol. 10, Nos. 13–24 | Austrian Schillings 337,– |

Back copies of the above are still available. In addition, a 5-year Cumulative Report, Standard and Patent Number Index, Covering Vol.3, No.5–Vol.8, No.12, is available. Price: Austrian Schillings 128,–.

Orders should be sent to the Division of Publications of the IAEA.

How to use this Cumulative Index

Each index entry refers to the RN (reference number) of the appropriate main entry in an issue of INIS Atomindex. The range of RNs in the issues covered by this cumulation is as follows:

| | |
|---------------------|---------------|
| RN 459655–RN 462062 | Vol.10, No.13 |
| RN 462063–RN 463865 | Vol.10, No.14 |
| RN 463866–RN 466989 | Vol.10, No.15 |
| RN 466990–RN 471195 | Vol.10, No.16 |
| RN 471196–RN 474401 | Vol.10, No.17 |
| RN 474402–RN 477567 | Vol.10, No.18 |
| RN 477568–RN 480957 | Vol.10, No.19 |
| RN 480958–RN 482979 | Vol.10, No.20 |
| RN 482980–RN 485262 | Vol.10, No.21 |
| RN 485263–RN 488531 | Vol.10, No.22 |
| RN 488532–RN 492383 | Vol.10, No.23 |
| RN 492384–RN 495330 | Vol.10, No.24 |

Personal Author Index

The name of each personal author of every document cited is listed in the form in which it appears in the main entry. Hence, an author's name may appear more than once, depending on whether a forename is spelled out or only initials are given. Note also that names preceded by "name fragments", such as "de", "van", "von", etc., may appear either under the name fragment or under the main part of the name, depending on local practices for treating such names.

Each entry gives the full title of the document and the RN of the main entry for that document. If the document is a technical report or patent document, the report number or patent number is given in brackets, following the title.

Examples:

- Berg, B.**
Additional conservation laws in the Thirring model. 264528
Particle number conservation in the massive Thirring model. 264527
- Berg, C.J.M. van den**
Coded aperture imaging and the introduction of the modulated zone plate in nuclear medicine. (CEA–CR–6) 251473
A refocussing filter based on Fridman's theorem, applied to Tl-201 myocardial scintigrams. (CEA–CR–6) 251497

- Van De Woestijne, K.P.**
Horizontal gradient in ventilation distribution due to a localized chest wall abnormality. 255646

- Van den Berg, J.A.**
Equilibrium studies of the uranyl oxalate system in acidic aqueous solution. 270151

Corporate Entry Index

The names of corporate entries are listed in the form specified in INIS: Authority List for Corporate Entries and Report Number Prefixes (IAEA-INIS-6). Whenever appropriate, references are made from superseded forms of the corporate names, or from forms that have not been adopted, to the forms of the names used in this index. Note, however, that index entries are not included for corporate bodies cited only as an author's affiliation.

Each entry gives the full title of the document for which the corporate body is responsible, and the RN for the main entry of that document. If the document is a technical report or patent document the report number or patent document number is given in brackets, following the title.

Examples:

- Agence Nationale de Valorisation de la Recherche (ANVAR), 92 – Paris-Defense (France)**
Process and devices of detection of hard electromagnetic or particle radiations using a superconducting element. 433824
Process for obtaining oxygen doped zinc telluride monocrystals and scintillator crystals obtained by this process. 444113
System for the high speed cathodic spraying of a deposit. 432647
- Anderson (M.D.) Hospital and Tumor Inst., Houston, TX (USA)**
Radiation and biophysical studies on cells and viruses. Progress report 1 July 1977 – 30 June 1978. (ORO – 2832-192) 436972
- ANVAR, 92 – Paris-Defense (France)**
See Agence Nationale de Valorisation de la Recherche (ANVAR), 92 – Paris-Defense (France)
- Applied Decision Analysis, Inc., Menlo Park, CA (USA)**
Methodology and preliminary models for analyzing nuclear safeguards decisions. (UCRL – 13931) 459620
- Applied Nucleonics Co., Inc., Los Angeles, CA (USA)**
Summary of seismic assessment of underground and buried nuclear power plants. (ATR – 78/7652-012) 437244
- Arbeitsgemeinschaft Versuchs-Reaktor G.m.b.H., Duesseldorf (Germany, F.R.)**
10 years of electricity generation with the pebble bed reactor of AVR. (INIS-mf – 4910) 452767

Conference Index

This index is divided into two parts. The first part is arranged in chronological order by the date of the meeting. Other information given includes the place (city or town) where the meeting was held, the name of the meeting, and the RN's of the main entries for all documents presented at, or resulting from the meeting and listed in the issues of INIS Atomindex covered by this cumulation.

The second part of the index repeats the above information but this time the entries are arranged in alphabetical order by the name of the place in which the meeting was held.

Examples:

- 76 Mar 1. Toulouse, France.** International colloquium on solar electricity. 293922
- 76 Mar 2. Golden, CO, USA.** Interagency Mechanical Operations Group meeting. 283257, 284029.
- 76 Mar 9. Dublin, Ireland.** International conference on physics in industry. 297370, 297379, 297384, 297541, 298153, 298173, 298178, 298182, 298205, 298744, 299136, 299319, 299353, 299364, 299477, 299831, 299921, 299944, 300058.
- Glasgow, UK. 76 Apr 7.** Annual Chemical Congress. 287782.
- Goettingen, Germany, F.R. 75 May 26. 4.** German symposium on nuclear law. 290006, 290325, 290329, 290341, 290346, 290349, 290350, 291073, 291075, 291076, 291077, 291078, 291079, 291080, 291081, 291082, 291083, 291084, 291085, 291086, 291087, 291088, 291089, 291090, 291091, 291093, 291094.
- Golden, CO, USA. 76 Mar 2.** Interagency Mechanical Operations Group meeting. 283257, 284029.

Report, Standard and Patent Number Index

Entries for publications are arranged according to the number assigned to them by the organizations or institutions responsible for their production or distribution. If a document has not been assigned a reference number at the source, it is assigned an INIS-mf– number by the INIS Secretariat. Patent numbers are listed under the general heading PATENTS.

Each index entry gives the RN for the main entry of the document and a note indicating its availability. If this note consists of, or contains the acronym "INIS", a microfiche copy of the document is available from the INIS Clearinghouse. Otherwise a source from which a copy of the document may be obtained is given. On occasion, the availability of the document in another form is also indicated. See also the section headed "How to obtain copies of documents cited in INIS Atomindex", below.

Examples:

- CEA-CONF**
CEA-CONF–3695 313867 Copies available from Service de Documentation, CEN Saclay, BP No2, 91190 Gif-sur-Yvette (France).
- D**
D-456228
See N–76-22136
- DIN**
DIN–25403(Pt.4) 315707 Publisher
- DOCKET-STN-5056**
DOCKET-STN-50568–1 316143 INIS
- DP**
DP–1452 315036 INIS

Subject Index

Each document listed in **INIS Atomindex** is entered under one or more alphabetically listed subject headings. These are constructed from descriptors selected from among those assigned to the magnetic-tape record for the document, and usually consist of a pair of descriptors, one used as a main heading and the second as a qualifier of that main heading. The main headings are selected to describe as specifically as possible an important concept in the document, and the qualifiers are selected to provide further information about the main heading. Occasionally, a document is so general or covers so many aspects of the concept represented by the main heading that the use of a qualifier is not appropriate. The full index entry includes, in addition to the title of the document, the one or more subject categories that have been assigned to the document (printed in brackets), and the RN of the main entry for the document. Additional information on the content of the document may be included within the brackets with the categories as an augmentation of the title.

The subject index also includes references from terms not adopted for indexing to the approved terms (descriptors) under which information may be found (see references); see also references are intended to guide the index user from one subject heading to another under which related material may also be indexed.

For additional guidance to subject headings under which references of interest might be found, see **INIS: Thesaurus (IAEA-INIS-13)**.

Examples:

ALVEOLI (PULMONARY):

See **LUNGS**

AMERICIUM:

electric conductivity

The electrical resistivity of ^{241}Am metal. (B22). 354557

AMERICIUM COMPOUNDS:

ion exchange chromatography

Separation of Am, Cm and rare-earths on the colloidal fraction of an anion-exchange resin deposited on an inert carrier. (B13). 354400

Separation of Am, Cm and rare-earths by continuous two-dimensional ion-exchange chromatography. (B13). 354405

AMERICIUM ISOTOPES:

See also **AMERICIUM 241**

AMERICIUM 241:

clearance

Decorporation of ^{241}Am and ^{252}Cf by Ca-DTPA from rat, Syrian and Chinese hamster. (C21). 354868

electric conductivity

The electrical resistivity of ^{241}Am metal. (B22). 354557

internal irradiation

The dosimetry of ^{241}Pu reconsidered. (C55). 355044

AMIDES:

See also **ACRYLAMIDE**

AMINES:

See also **ANILINE; HYDROXYLAMINE; TRYPTAMINES**

liquid column chromatography

Use of high performance liquid chromatography to separate very small quantities of radio-labelled metabolites from biological tissue. (C42; Acaricides; amitraz). 354909

AMINO ACIDS:

See also **CYSTEINE; DTPA; FOLIC ACID; KYNURENINE; THYROXINE; TRYPTOPHAN**

AMINO BENZENE:

See **ANILINE**

AMMONIA:

electron-molecule collisions

Differential cross sections for 35keV electrons elastically scattered from NH_3 . (A12). 353297

AMMONIUM COMPOUNDS:

neutron diffraction

Studying the rotation of the NH_4 ion in ammonium chloride by means of high-resolution neutron spectroscopy. (A13, B12). 353495

How to obtain copies of the documents cited in INIS Atomindex

Copies of the technical reports, conference preprints, patents, standards and theses (i.e. non-conventional literature) are normally available in microfiche format from the **INIS Clearinghouse**. For those items of non-conventional literature which are not available from the **INIS Clearinghouse**, both the main entry and the Report, Standard and Patent Number Index entry provide information regarding availability from another source or in another form.

Most of the conventional, commercially published literature abstracted in **INIS Atomindex**, including books and journal articles, may be found in major libraries around the world. For publications issued in particular countries, enquiries should be made to the organizations listed below. However, enquirers having difficulty in obtaining access to any of the literature cited in **INIS Atomindex** should seek the assistance of the national **INIS Liaison Officer** in their country (a list of the **Liaison Officers** is given beginning on page XI).

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Source: **INIS Liaison Officer for Algeria**

Availability: Photocopies and microfiches of Algerian nuclear literature supplied to centres in many countries on an exchange basis

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Availability: **SGAE reports:** Free of charge
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Bangladesh

Source: **INIS Liaison Officer for Bangladesh**

Availability: Photocopies of Bangladesh Publications

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Source: The Library

Centre d'Etude de l'Energie Nucléaire
CEN/SCK, Boeretang 200
B-2400 Mol

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Chile

Source: The Library, Chilean Nuclear Energy Commission
Casilla 188 D, Santiago de Chile

Availability: Reports: free of charge to institutions on request
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Photocopies of dissertations: charge depends on number of pages copied

Czechoslovakia

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Denmark

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Availability: Inter-library loans: free
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Availability: Photocopies: FMK 6.00 for 10 pages
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Availability: Reports: Free on an exchange basis; copies for sale: price varies according to size. Photocopies of articles in French journals: available on request by national INIS Liaison Officers only.

Source: Service de Vente de l'Imprimerie Nationale
Route d'Auby, 59128 Flers-en-Escrebieux

Availability: Patents. Price: FF 5.00 (+postage)

German Democratic Republic

Source: INIS Liaison Officer for the German Democratic Republic

Availability: Microfiche copies: free of charge

Germany (Federal Republic)

If the demand for literature cannot be met on the basis of the national or international acquisition or loan service, the INIS Liaison Officer for the Federal Republic of Germany will take over the function of helping to acquire, trace and/or exchange conventional and non-conventional literature, subject to copyright restrictions

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Source: Technoinform
Foreign Trade Department of the Hungarian Central Technical Library and Documentation Centre
1428 Budapest, P.O. Box 12

Availability: Hard copies: US \$0.20 per page
35 mm microfiche: US \$0.10 per page
Microfiche (60 frames): US \$2.50 per fiche
Minimum charge: US \$4.00

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Source: INIS Liaison Officer for India

Availability: 35 mm negative microfilm: US \$2.00 for first 20 pages; US \$1.00 for each additional 10 pages

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P.O. Box 1478, Chuo-Yubin-Kyoku
Tokyo 100-91 - Telephone: (03) 581-6411

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Pakistan

Source: INIS Liaison Officer for Pakistan

Availability: Copies of nuclear literature from Pakistan free of charge on an exchange basis

Poland

Source: INIS Liaison Officer for Poland

Availability: Copies of certain material: free on an exchange basis
Copies for sale at prices equivalent to those charged by NTIS

Portugal

Source: INIS Liaison Officer for Portugal

Availability: All nuclear documents published in Portugal: free of charge

Romania

Source: INIS Liaison Officer for Romania
Availability: Romanian nuclear literature supplied to centres in many countries on an exchange basis

South Africa

Source: INIS Liaison Officer for South Africa
Availability: Photocopies of all South African non-conventional literature and journal articles: free of charge

Spain

Source: INIS Liaison Officer for Spain
Availability: Photocopies: US \$0.10 per page
Microfiches: US \$0.15 per page
Reports (full size): prices as per catalogue (see editorial service: *Revista Energia Nuclear*)

Sweden

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Photocopies of non-conventional documents published in Sweden: US \$0.15 per page
Access to conventional documents: cannot be guaranteed

Switzerland

Source: INIS Liaison Officer for Switzerland
Availability: Photocopies: prices on application

Thailand

Source: INIS Liaison Officer for Thailand
Availability: Photocopies of reports: free of charge

Turkey

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See also A1-1070 RESONANCES; A2-1310 RESONANCES

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genetic radiation effects

Capsule summary of results of radiation studies on Hiroshima and Nagasaki atomic bomb survivors, 1945-75. (C15). [Data] 490999

Mental retardation occurring in embryo exposed in utero to the atomic bomb (Hiroshima). (C15). 476583

A search for genetic effects of atomic bomb radiation on the growth and development of the F₁ generation, 2. (C15). [Data] 490991

healing

Hot spring therapy of atomic bomb exposed patients, (9). (C55). 476741

Hot spring therapy of atomic bomb exposed patients, (10). (C55). 476754

health hazards

A synthetic medical investigations on atomic bomb survivors exposed in short distances, 6. (C15). [Data] 476586

hepatomas

Clinicopathological study on the primary hepatoma of the atomic bomb survivors. (C15). [Data] 476596

leukemia

Incidence of leukemia in atomic bomb survivors belonging to a fixed cohort in Hiroshima and Nagasaki, 1950-71. (C15). 469696

life span

The hypothesis of radiation-accelerated aging and the mortality of Japanese A-bomb victims. (C15). 479887

Life span study, 8. (C15). [Data] 490983

low dose irradiation

Breast cancer incidence among atomic bomb survivors: implications for radiobiologic risk at low doses. (C15, E14). 461070

Risk of breast cancer following low-dose radiation exposure. (C15, C61, C63). 490984

The secret of Hiroshima. (C15; The effects of low-dose neutron irradiation). 479894

medical records

A search for genetic effects of atomic bomb radiation on the growth and development of the F₁ generation, 2. (C15). [Data] 490991

mental disorders

Mental retardation occurring in embryo exposed in utero to the atomic bomb (Hiroshima). (C15). 476583

mortality

Life span study, 8. (C15). [Data] 490983

progeny

Mortality of in-utero children exposed to the A-bomb and of offspring of A-bomb survivors. (C15). [Data] 479898

stomach

Relation of radiation to gastric carcinoma observed in autopsy cases in a fixed population, Hiroshima and nagasaki 1961 - 74. (C15). 473032

thrombosis

Aging and competence for physical defense among a-bomb survivors, (1). (C15). 473028

thyroiditis

Complications in autopsy cases of Hashimoto's disease with special reference to A-bomb exposure. (C15). 482059

A-1 REACTOR (BOHUNICE):

See BOHUNICE A-1 REACTOR

AAEC:

research programs

Nuclear Science and Technology Branch report 1977. (B16). 476213

Nuclear science and technology branch report 1977. (F62). 477567

Nuclear Science and Technology Branch report 1977. (F62). 477561

Nuclear Science and Technology Branch report 1977. (F62). 477563

Twenty-sixth annual report 1977-78. (F62). 477562

ABDOMEN:

biomedical radiography

Scanty intestinal gas in infants and children. (C61). 461374

Urgent X-ray examination in abdominal wounds. (C61). 494504

cat scanning

Computed tomography of the abdomen and thorax. Chapter 3. (C61). 487665

Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408

delayed radiation effects

Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005

neoplasms

Remote gamma-therapy of non-organic initial and metastatical neoplasms of retroperitoneal space. (C63). 494628

scintiscanning

Computed tomography and ⁶⁷Ga citrate radionuclide imaging for evaluating suspected abdominal abscess. (C62, C61). 473456

ABERRATION YIELD:

See MUTATION FREQUENCY

ABLATION:

(For the medical concept use SURGERY or RADIOTHERAPY.)

Effects of atomic processes on fuel pellet ablation in a thermonuclear plasma. (A14). 481184

ABNORMALITIES (CHROMOSOMAL):

See CHROMOSOMAL ABERRATIONS

ABNORMALITIES (DEVELOPMENTAL):

See MALFORMATIONS

ABSCESSES:

diagnosis

Computed tomography and ⁶⁷Ga citrate radionuclide imaging for evaluating suspected abdominal abscess. (C62, C61). 473456

Desferoxamine mesylate (desferal): a contrast-enhancing agent for gallium-67 imaging. (C62, C21). 491330

Preoperative diagnosis of splenic abscess by ultrasonography and radionuclide scanning. (C62; ⁶⁷Ga-citrate; /sup 99m/Tc-sulfur colloid). 491308

Scintigraphic diagnosis and localization of abdominal abscesses using sup(99m)Tc labelled leukocytes. (C45). 473176

Splenic abscess: comparison of four imaging methods. (C62, C61; Scintiscanning; CAT Scanning; arteriography; ultrasonography). 473432

Use of autologous Tc-labelled leucocytes in the detection of abscesses. (C31). 463258

scintiscanning

Imaging of inflammatory lesions. (C62). 484741

ABSCOPAL RADIATION EFFECTS:

cerebrum

Abscopal effects of X-ray hemilateral brain exposure in rabbits. (C14). 466012

enzymes

Dose dependence of enzyme activity changes in locally irradiated rats. (C14). 463146

ABSOLUTE COUNTING:

hungary

New equipments for activity measurements in the National Office of Measures (OMH, Budapest). (D15). 473580

ABSORBED DOSES:

See RADIATION DOSES

ABSORPTION:

(In quantum physics only; for reducing the intensity of waves and submolecular particles when passing through matter, see also ATTENUATION or CHEMISORPTION. For absorption cross sections, see also TOTAL CROSS SECTIONS.)

See also RESONANCE ABSORPTION

microwave radiation

Negative absorption and energy distribution of hot electrons in relativistic magnetized plasma. (A14). 471677

- nuclear models**
Modified quasi-deuteron model. (A34). 483895
- ABSORPTION (INTESTINAL):**
See **INTESTINAL ABSORPTION**
- ABSORPTION SPECTRA:**
physical radiation effects
Optical studies of the 2.367 eV vibronic absorption system in irradiated type Ib diamond. (B25). 494109
stark effect
Motional Stark effect on Li vapor photoabsorption in high magnetic fields. (A12). 477724
- ABSORPTION SPECTROSCOPY:**
Photoabsorption spectroscopy of atoms in the extreme ultraviolet (XUV) spectral region. (A12). 485420
atomization
Some studies on atomic absorption spectrometry using ultrahigh-frequency plasma as atomizer. (B11). 490299
comparative evaluations
Mechanical instability of falcemic oxymoglobin. (C31). 476631
food
Estimation of microelements - iron, zinc, copper, manganese and cobalt - in soldiers food by method of atomic absorptiometry. (B11). 483975
gravitational fields
Gravitational effects in nonlinear laser spectroscopy. (A12). 474646
on-line measurement systems
Calibration drift in the automated determination of calcium and magnesium by atomic absorption. (A12). 459759
optimization
Optimization of instrumental variables in flame atomic absorption spectrometry. (B11). 460377
plasma
Some studies on atomic absorption spectrometry using ultrahigh-frequency plasma as atomizer. (B11). 490299
signals
Signal enhancement in carbon-filament atomic absorption spectrometry by metal-oxygen reactions. (A12). 483161
zeeman effect
Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- ABSORPTIVITY (OPTICAL):**
See **OPACITY**
- ABUNDANCE (ELEMENT):**
See **ELEMENT ABUNDANCE**
- ABUNDANCE (ISOTOPIC):**
See **ISOTOPE RATIO**
- ACCELERATION:**
See also **PLASMA ACCELERATION**
heavy ions
Collective field acceleration of heavy ions by REB. (E16). 482634
relativistic beam injection
Collective field acceleration of heavy ions by REB. (E16). 482634
- ACCELERATOR BREEDERS:**
(Accelerators used in the production of fissionable materials.)
cooling systems
Thermal hydraulics of accelerator breeder systems for regeneration of reactor fuel assemblies. (E16). 477090
economics
Status and prospects of advanced fissile fuel breeders. (A14, F11, E16). 471675
feasibility studies
Concept evaluation of a nuclear design for electronuclear fuel production: evaluation of ORNL's proposed TMF-ENFP. (E16). 480434
Conceptual design and economic analysis of a light water reactor fuel enricher/regenerator. FY 1978 year-end report. (E35, E16). 491975
Preconceptual accelerator-breeder design for fissile material and energy production. (E16). 487916
fuel cans
Feasibility of Zircaloy as a fuel clad and structural material in an LAFR-LWR. (E35, B25). 466732
fuel cycle
Nuclear power without nuclear bombs. Linear accelerator-breeder concept for decoupling the nuclear power economy from nuclear weapons production. (E35, F41). 461785
performance
Nuclear performance of target-blanket assemblies for electronuclear fuel production. (E16). 482600
reviews
Accelerator breeding of fissile materials. (D11, E16). 470223
The use of high energy accelerators in the nuclear fuel cycle. (E35, E16). 473961
specifications
Methods and applications of Monte Carlo in low energy (less than or equal to 20 MeV) neutron-photon transport (MORSE). Part II. Methods. (A14, E16). 459896
- ACCELERATOR FACILITIES:**
See also **TARGET CHAMBERS**
background radiation
Muon backgrounds in experimental halls. (E16). 473679
beam monitors
Simple accelerator beam position monitor. (E16). 491670
beam position
Simple accelerator beam position monitor. (E16). 491670
construction
Interactions between the colliding beams program and the fixed target experimentation. (E16). 473683
The Pelletron Accelerator at the University of Lund, Sweden. (E16). 482609
data acquisition systems
Notes on the fast bus system. (E16, F50). 487918
forecasting
Next generation of accelerators. (E16). 487928
polarized targets
Report of the workshop on polarized target materials. (E16). 466527
research programs
Next generation of accelerators. (E16). 487928
safety
Staffing for operational safety and efficiency. (E16). 477089
specifications
Experimental hall design considerations. (E16, A22). 473669
- ACCELERATORS:**
See also more specific entries as listed in the INIS Thesaurus.
beam dynamics
Are we beating Liouville's theorem. (E16). 480500
beam focusing magnets
Measurements on the NSF injector and analysing magnets. (E16). 494728
beam optics
Beam spot measurements on a 400 keV electron accelerator. (E16). 463556
beam profiles
Ionization chamber. (E41, E16). 474126
comparative evaluations
100 kJ ion beams for pellet implosions. (A14, E16). 475081
data acquisition systems
Event Handler II: a fast, programmable, CAMAC-coupled data acquisition interface. (E16, E42). 491609
electron dosimetry
The dosimetry of low-energy electron processing systems. (D23). 480331
electrostatic lenses
Focusing by beamlet steering in two-stage accelerator. (A14). 467645
forecasting
Next generation of accelerators. (E16). 487928
harmonics
Field configuration transformer. (E14). 470355
ionosphere
Space experiments with particle accelerators: SEPAC. (E16). 477043
isotope production
"Small" accelerator, radionuclide and radiopharmaceutical production. (E16, B13). 470409
medicine
Report of the Study Group on Medical Uses of Accelerators. (E16). 477064
neutron dosimetry
Development and testing of neutron dosimetry techniques for accelerator-based irradiation facilities. (E13, E16). 461512
neutron flux
High energy neutron sources using pulsed ion beam accelerators. (E16). 487886
neutron spectra
Data for simple estimates of shielding against neutrons at electron accelerators. (E16). 473729
performance
Acceleration systems for heavy-ion beams for inertial confinement fusion. (A14, E16). 475004
polarized beams
Possibilities to obtain high energy polarized particles in accelerators and storage rings. (E16). 491587
power supplies
Development of a 3 MV pulse transformer. (E13, E16). 487856
EBFA project. (A14; Electron Beam Fusion Accelerator research). 477980
MITL: A 2-D code to investigate electron flow through non-uniform field region of magnetically insulated transmission lines. (A14). 492801
radiation protection
Radiation shielding. (C54). 494451
Radiation shielding collector for an electron beam facility. (E16). 482608
radioisotope generators
Radioisotope production with electron accelerators. (D13). 461447
research programs
EBFA project. (A14; Electron Beam Fusion Accelerator research). 477980
safety
Staffing for operational safety and efficiency. (E16). 477089
seismic effects
Rocking and overturning response of rigid bodies to earthquake motions: a report of an analytical and experimental study on the rocking and overturning response of rigid blocks to simultaneous horizontal and vertical accelerations. (E16). 470367
shielding
Data for simple estimates of shielding against neutrons at electron accelerators. (E16). 473729
shields
Radiation shielding. (C54). 494451
short wave radiation
Field configuration transformer. (E14). 470355
specifications
High intensity 1.5 megavolt heavy ion preaccelerator for ion beam fusion. (A14, E16). 478192
sputter-ion pumps
Designing ion pumps to accelerator specifications. (E16). 461546
superconducting devices
Harmony in science: superconductivity and high energy physics. (E16, A17). 461559

- superconducting magnets**
Long flexible transfer lines for gaseous and liquid helium. (E12). 491519
- thermal stresses**
Temperature and thermal stresses in accelerator target plates. (E16). 491656
- united kingdom organizations**
Daresbury 1978. (E16). 473661
- uses**
Estimation of capacity of charged particle accelerator complex for industrial application. (E16). 487895
- ACCELEROMETERS:**
nuclear power plants
Seismic instrumentation for nuclear power plants. (C52). 463367
reactor sites
Seismic instrumentation for nuclear power plants. (C52). 463367
superconducting devices
Fabrication and properties of rf niobium-on-sapphire superconducting resonators. (E12, A15). 470313
Superconducting accelerometer using niobium-on-sapphire rf resonator. (E12, A15). 470312
- ACCIDENTS:**
See also ATWS; DESIGN BASIS ACCIDENTS; EXCURSIONS; FUEL ELEMENT FAILURE; INDUSTRIAL ACCIDENTS; LOSS OF COOLANT; LOSS OF FLOW; MELTDOWN; POWER-COOLING-MISMATCH ACCIDENT; RADIATION ACCIDENTS; REACTOR ACCIDENTS; REACTOR CORE DISRUPTION; ROD DROP ACCIDENTS; ROD EJECTION ACCIDENTS; TRANSIENT OVERPOWER ACCIDENTS
Nuclear, biological and chemical disasters. (C52). 487397
Safeguards Summary Event List (SSEL). Pre-NRC through December 31, 1978. (F41, E30; Events involving licensed material or licensees). 488482
- aircraft**
Dynamic analysis of aircraft impact using the linear elastic finite element codes FINEL, SAP and STARDYNE. (C52). 480107
civil liability
Civil consequences of nuclear power. (F25). 488431
environmental impacts
Nuclear energy. (C51, C52). 482192
- risk analysis**
The development of safety criteria for use in the nuclear industry. (C52). 482218
- ACCOUNTING:**
Application of advanced accountability concepts in mixed oxide fabrication. (F41). 477529
Data analysis for nuclear materials accounting. (F41). 488492
Impact of receipt of coprocessed uranium/plutonium on advanced accountability concepts and fabrication facilities. Addendum 1 to application of advanced accountability concepts in mixed oxide fabrication. (F41). 477530
Impact of uranium-233/thorium cycle on advanced accountability concepts and fabrication facilities. Addendum 2 to application of advanced accountability concepts in mixed oxide fabrication. (F41). 477531
Implementation plan for automatic data processing equipment as part of the DYMAL advanced accountability system. Addendum 3 to applications of advanced accountability concepts in mixed oxide fabrication. (F41). 477539
- material balance area**
Some developments in safeguards techniques. (F41). 471152
- radioactive materials**
Procedures for economic distribution of radionuclides in research facilities. (F61). 463858
- simulation**
Uranium accountability for ATR fuel fabrication, a computer simulation. (F41). 488481
- ACCRETION (PLANET-SYSTEM):**
See PLANET-SYSTEM ACCRETION
- ACCRETION (STARS):**
See STAR ACCRETION
- ACCUMULATION:**
See BUILDUP
- ACCUMULATION (RADIOECOLOGICAL):**
See RADIOECOLOGICAL CONCENTRATION
- ACENAPHTHENE:**
chemical radiation effects
Investigations in the field of solid-state polymerization Pt. 37. (B14, D23). 472529
polymerization
Investigations in the field of solid-state polymerization Pt. 37. (B14, D23). 472529
- ACES:**
See QUARKS
- ACETALDEHYDE:**
chemical reaction yield
Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
chemical reactions
Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
quantitative chemical analysis
Acetone and acetaldehyde determination in tomato juice by isotopic dilution. (B12). 462731
- ACETALS:**
labelling
Kinetic α secondary deuterium isotope effects for O-ethyl S-phenyl benzaldehyde acetal hydrolysis. (B12). [Data] 486596
- ACETAMIDE:**
See also IOGLYCAMIC ACID
- biochemical reaction kinetics**
Arylamidation and arylation by the carcinogen N-2-fluorenylacetylamine: a sensitive and rapid radiochemical assay. (C62; ^{14}C tracer technique). [Data] 487688
- rotation**
Electron spin resonance studies of barriers to hindered rotation in acetic acid, acetamide, and peptide radicals. (B12). 486668
- solubility**
Systems of europium sulfate-carbamide-water and europium sulfate-acetamide-water at 30 deg C. (B12). 476037
Systems of neodymium acetate-carbamide-water and neodymium acetate-acetamide water at 30 deg C. (B12). 476036
- ACETATES:**
chemical reactions
Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
cobalt ions
EPR of the Co^{2+} ion as a natural impurity in the tetrahydrated nickel acetate matrix. (A13). 471470
metabolism
In vitro incorporation of acetate $1\text{-}^{14}\text{C}$ into goat testicular lipids. (C31). 463260
phase studies
Solid phases in systems on the base of acetates of alkaline earth metals and acetic acid. (B12). 468779
- ACETIC ACID:**
molecular structure
H-bonds in acetic acid crystals: influence of temperature and isotopic dilution on O-H(O-D) stretching bands. (A12). 477774
rotation
Electron spin resonance studies of barriers to hindered rotation in acetic acid, acetamide, and peptide radicals. (B12). 486668
- ACETIC ACID ESTERS:**
chemical radiation effects
 γ -radiation-induced telomerization of vinyl acetate, styrene, and methyl methacrylate. (B14). 472500
Graft polymerization of vinyl acetate onto starch. Saponification to starch-g-poly(vinyl alcohol). (B14; γ rays). 472511
Grafting onto polyester fibers. II. Kinetics of grafting of acrylic acid, acrylonitrile, and vinyl acetate onto polyester fibers. (B14). 486762
[Data] Radiation-induced emulsion copolymerization of vinyl chloride with vinyl acetate in an engineering flow system. (B14). [Data] 486772
- chemical reactions**
Cobalt way to dl-Estrone, a highly regiospecific functionalization of 2,3-bis(trimethylsilyl)estratrien-17-one. (B12). 472429
- dimerization**
Thermal ion-molecule reactions in oxygen-containing molecules. (B12). [Data] 462714
- electron spin resonance**
ESR studies of ethyl acetate radiolysis at cryogenic temperatures. (B14). 490484
- radiation effects**
Effect of gamma radiation on some properties of ethylene copolymers with vinyl acetate. (B14, B25). 479287
- radioluminescence**
Radioluminescence of solid ethyl acetate. (B14). 490485
- radiolysis**
ESR studies of ethyl acetate radiolysis at cryogenic temperatures. (B14). 490484
- radiopharmaceuticals**
 $^{99\text{m}}\text{Tc}$ -IDA imaging in the differential diagnosis of acute cholecystitis and acute pancreatitis. (C62). 470098
Clinical comparison of $^{99\text{m}}\text{Tc}$ -diethyl-iminodiacetic acid, $^{99\text{m}}\text{Tc}$ -pyridoxylidene-glutamate, and ^{131}I -rose bengal in liver transplant patients. (C62, C31). 470122
- ACETIC ALDEHYDE:**
See ACETALDEHYDE
- ACETOACETATES:**
oxidation
Electronic excitation of eosin when catalyzing the oxidation of nadh and of acetoacetate in the horseradish peroxidase-manganese- O_2 system. (A12, C11). 485465
- ACETOACETIC ACID ESTERS:**
spectral shift
Proton, deuterium, and tritium nuclear magnetic resonance of intramolecular hydrogen bonds. Isotope effects and the shape of the potential energy function. (B12). 460436
- ACETONE:**
chemical reactions
Studies of gas phase reactions of uranium with selected oxidizers and fluoromethanes. (B13, A12). [Data] 472485
energy transfer
Transfer of energy from enzymically energized triplet acetone to halogenoaromatics complexes. (A12, C11). 485512
excited states
Energy transfer from enzyme-energized triplet acetone to photoreceptors. (A12, C11). 485394
photochemistry
Rate constants for self- and cross-termination of transient radicals by modulation electron spin resonance spectroscopy. (B12). 472455
photoionization
Photoionization mass spectrometric studies of selected compounds in a molecular beam. (A12). 474669
quantitative chemical analysis
Acetone and acetaldehyde determination in tomato juice by isotopic dilution. (B12). 462731
radioluminescence
Participation of nonsolvated electrons in formation of excited states during radiolysis of organic compound aqueous solutions. (B14).

- radiolysis 479288
Participation of nonsolvated electrons in formation of excited states during radiolysis of organic compound aqueous solutions. (B14). 479288
Spin trap method. The study of liquid-phase acetone radiolysis using nitroso compounds. (B14). 484114
triplets
Energy transfer from enzyme-energized triplet acetone to photoceptors. (A12, C11). 485394
Peroxidase catalysed generation of triplet acetone. (A12, C11). 485401
- ACETOPHENONE:**
nitro compounds
The triplet-state charge-transfer reaction between p-nitroacetophenone and guanosine monophosphate. (C11). [Data] 463058
radiolysis
Short-half-life products of hydrated electron interaction with acetophenone. (B14). 479264
reduction
Competitive processes in retardation by mercaptans of photoreduction by alcohols. (B12). 486586
- ACETYLACETONE:**
chemical reaction kinetics
Kinetics of aquation of the tris(acetylacetonate) complexes of divalent chromium, cobalt, and ruthenium. A pulse radiolytic study. (B14, B12). [Data] 486751
- ACETYL BENZENE:**
See ACETOPHENONE
- ACETYLCHOLINE:**
biological localization
Formation of neuromuscular junctions in rat embryo cell cultures. (C31). 461130
biological radiation effects
Effects of various types of radiological factors on the system of acetylcholine-cholinesterase. (C21, C14). 466219
radioprotective substances
Influence of acetyl-beta-methyl choline on mouse survival and radiosensitivity of hemopoietic stem cells. (C14). 466045
- ACETYLENE:**
carbon 11
Production of ¹¹C-acetylene by methane pyrolysis. (B13). 490435
chemical reactions
Coordination chemistry study of a nickel surface. The chemistry of Ni(111) with triply bonded molecules. (B12). 472432
chemisorption
LEED analysis of acetylene and ethylene chemisorption on the Pt(111) surface: Evidence for ethynylidyne formation. (B12). [Data] 465337
cosmic gases
Laboratory investigation of ion-molecule reactions of HC₃N in dense interstellar clouds. (A15). 471809
electron-molecule collisions
Ionization efficiency curves of ethylene, ethane and acetylene by electron impact. (B14). 468978
hot atom chemistry
High energy halogen atom reactions activated by nuclear transformations. Progress report, February 15, 1978 - February 14, 1979. (B13). 486718
ionization
Simulated total electro-ionization efficiency curve of acetylene. (B14). 472547
- ACETYLENES:**
See ALKYNES
- ACETYL SALICYLIC ACID:**
radiosensitivity
Effect of selected drugs on first-stage radioemesis in beagle dogs. (C14; Following x irradiation of abdomen). 490953
- ACHONDRODYSPLASIA:**
element abundance
The abundances of titanium, zirconium and hafnium in stony meteorites. (B11). [Data] 460423
fluorescence
Fluorescent accessory phases in the carbonaceous matrix of ureilites. (A15). 467758
isotope dating
⁴⁰Ar-³⁹Ar age of the Shergotty achondrite and implications for its post-shock thermal history. (B31). [Data] 487064
Argon 40-argon 39 chronology of lithic clasts from the Kapoeta howardite. (B31). [Data] 487117
Rb-Sr age of the Shergotty achondrite and implications for metamorphic resetting of isochron ages. (B31). [Data] 487108
magnetization
The magnetic effects of brecciation and shock in meteorites. III. (A15). 475204
- ACID PHOSPHATASE:**
gamma radiation
Effects of hyperglycemia and γ-radiation on the activity of sarcosine 45 acid phosphatase. (C14). 479842
hyperglycemia
Effects of hyperglycemia and γ-radiation on the activity of sarcosine 45 acid phosphatase. (C14). 479842
radioimmunoassay
Serum prostate-specific acid phosphatase: development and validation of a specific radioimmunoassay. (C62; ¹²⁵I tracer technique). 470177
- ACIDITY:**
See PH VALUE
- ACIDS (INORGANIC):**
See INORGANIC ACIDS
- ACIDS (ORGANIC):**
See ORGANIC ACIDS
- ACO:**
infrared spectra
Infrared spectroscopy with synchrotron radiation. (E16). [Data] 463554
- ACOUSTIC EMISSION TESTING:**
The application of acoustic emission to the non-destructive testing of industrial structures. (E17). 473745
Application of acoustic emission in the study of material fracture initiation. (E17). 477095
Detection and location of artificial defects during submerged-arc welding. (E17). 473737
Equipment for the acoustic detection of leaks during hydraulic tests on pressure vessels. (E24). 477159
Inspection of nuclear reactor welding by acoustic emission. Progress report, November 1977 - November 1978. (E22). 480595
Inspection of nuclear reactor welding by acoustic emission. Final report, November 1974 - November 1977. (E22). 461626
- austenitic steels**
Acoustic emission as a means for the early detection of critical defect in welded structures of an austenitic pressure-vessel-steel. (E17, B22). 470445
- comparative evaluations**
Acoustic emission monitoring and ultrasonic examination correlation on a reactor pressure vessel. Final report. (E22, E17). 461609
- cracks**
Crack growth and sound emission. (E17). 470448
- electronic equipment**
Single-channel acoustic emission location method. (E17, E42). 477094
- failed element detection**
Method for the localization of leaky fuel cans and arrangement for the carrying-out of the method. (E31, E32, E17). 477207
- mathematical models**
Acoustic emission source location on a spherical or plane surface. (E17). 473738
Theoretical and experimental aspects of the localization of defects in pressure vessels with using acoustic emission. (E17). 461566
- nuclear power plants**
Classification and structure of acoustic-emission control systems in nuclear power engineering. (E17). 466580
- pressure vessels**
Acoustic emission transducer and system. (E22). 480597
Acoustic emission monitoring of pressure vessels during workshop hydrotest. (E17). 470470
- reactor components**
Inspection of nuclear reactor components during hydrotests by means of acoustic emission. (E22, E17). 470533
Inspection of nuclear reactor components by acoustic emission. (E17, E24). 470482
- reactor control systems**
Inspection of nuclear reactor components by acoustic emission. (E17, E24). 470482
- reactor cooling systems**
Acoustic emission transducer and system. (E22). 480597
- reliability**
Acoustic-emission source location using "face-centered" transducer arrays. (E17). [Data] 482649
- ACOUSTIC HEATING:**
alfven waves
Magnetonsonic cavity mode heating by wave conversion near the Alfvén resonance layer. (A14). 462404
ion acoustic waves
A heating mechanism of ions due to large amplitude coherent ion acoustic wave. (A14). 467726
tokamak devices
Magnetonsonic resonance heating in the ion-cyclotron frequency domain. (A14). 489373
Magnetonsonic resonance heating in the Erasmus Tokamak. (A14). 464267
- ACOUSTIC MONITORING:**
Acoustics of the Sodium Loop Safety Facility P2 experiment. (C52, E35; DOE). 466271
boiling
Laying the bogey of sodium boiling in FBR fuel clusters. (E35). 473951
measuring methods
Measurement of sound velocity in liquid metals. (E42). 492201
savannah river plant
Comparison of stability categories obtained from an acoustic sounder with those obtained from conventional meteorological data. (B31). [Data] 479635
shock waves
Microphones for studying shock waves in liquids. (E24). 473829
- ACOUSTIC NMR:**
Nuclear acoustic resonance in metals. (A13). 467445
phonons
Nuclear acoustic resonance study on behaviour of incoherent phonons in crystals. (A13). 492622
- ACOUSTIC NUCL. MAGN. RESONANCE:**
See ACOUSTIC NMR
- ACOUSTIC SPARK CHAMBERS:**
See SONIC SPARK CHAMBERS
- ACOUSTIC TESTING:**
See also ACOUSTIC EMISSION TESTING; ULTRASONIC TESTING

ACPR REACTOR:

fuel pellets
Remote encapsulation of mixed-oxide fuel pellets for transient testing. (E36). 470778

reactor kinetics

Two-region core design concepts for the upgrade of the annular core pulse reactor. (E36). 488198

ACQUISITION (DATA):

See *DATA ACQUISITION*

ACRIDINES:

See also *FLAVINES*

radiolysis

ENDOR studies on X-irradiated single crystals of acridine and phenazine. (B14). 490474

ACROCENTRIC CHROMOSOMES:**non-disjunction**

Relationships between satellite association and the occurrence of non-disjunction in man. (C15). 484546

ACROLEIC ACID:

See *ACRYLIC ACID*

ACROMEGALY:**delayed radiation effects**

Progressive visual failure in acromegaly following external pituitary irradiation. (C15). 487233

radiosensitivity

Endocrine factors influencing radiation injury to central nervous tissue. (C15, C63; Incidence of complication following radiotherapy of pituitary adenomas in patients with acromegaly or Cushing's disease). 472991

radiotherapy

Progressive visual failure in acromegaly following external pituitary irradiation. (C15). 487233

ACRYLAMIDE:**chemical radiation effects**

Copolymerization of vinyl monomers with irradiated acrylamide crystals. (B14; γ rays). 468955

complexes

On complexing of acrylamide with chlorides and sulfates of some transition metals in saturated aqueous solutions. (B12). 493619

ACRYLATES:**chemical radiation effects**

Radiation curable Michael addition compounds. (B14). 493806

Radiation curable hydantoin diacrylate compounds. (B14; Patent). 479276

Surface modification of polyethylene by radiation-induced grafting for adhesive bonding. III. Oxidative degradation and stabilization of grafted layer. (B14). 472555

copolymerization

Stabilization of colour of woolenized jute by radiation chemical treatment. (B14). 484090

radiolysis

Study on the long life radicals of hexanediol diacrylate in irradiated urea canal complexes in relation to post-polymerization by irradiation. (B14). 481742

ACRYLIC ACID:**chemical radiation effects**

Grafting onto polyester fibers. II. Kinetics of grafting of acrylic acid, acrylonitrile, and vinyl acetate onto polyester fibers. (B14). 486762

[Data]

Mechanism of oligomer chemical transformations during transition in space laced structure. (B14). 479304

Radiation curable compounds for use in coating compositions. (B14). 493803

Radiation process for the production of graft copolymer to be used for ion-exchange membrane. (B14, B11; Patent). 486749

graft polymers

Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (no. 11). (B14). 481728

ACRYLIC ACID ESTERS:**chemical radiation effects**

Kinetics of radiation polymerization of phenyl acrylate. (B14). 462777

Radiation curable compounds for use in coating compositions. (B14). 493803

Transparent fluorocarbon-based semi-II IPN elastomers by high-energy radiation methods. (B14). [Data] 486748

radiolysis

Study on the long life radicals of hexanediol diacrylate in irradiated urea canal complexes in relation to post-polymerization by irradiation. (B14). 481742

ACRYLIC POLYMERS:

See *POLYACRYLATES*

ACRYLONITRILE:**chemical radiation effects**

Grafting onto polyester fibers. II. Kinetics of grafting of acrylic acid, acrylonitrile, and vinyl acetate onto polyester fibers. (B14). 486762

[Data]

Particularities of radiation polymerization kinetics of monomers adsorbed on solid surfaces. (B14). 479209

copolymerization

Graft-copolymerization of acrylonitrile monomer onto irradiated natural rubber. (B14). [Data] 468982

Stabilization of colour of woolenized jute by radiation chemical treatment. (B14). 484090

low dose irradiation

Method for reducing the monomer content in acrylonitrile polymers. (B14). 490499

radiolysis

Pulse radiolysis study of acrylonitrile in aqueous solution. (B14). [Data] 479137

ACTH:**radioimmunoassay**

A radioimmunoassay of plasma corticotrophin. (C45). [Data] 487355

ACTINIDE ALLOYS:

See also *AMERICIUM ALLOYS*; *MULBERRY ALLOY*; *NEPTUNIUM ALLOYS*; *PLUTONIUM ALLOYS*; *THORIUM ALLOYS*; *THORIUM BASE ALLOYS*; *URANIUM ALLOYS*; *URANIUM BASE ALLOYS*

chemical bonds

Valence bond approach for calculating bond energies of diatomic intermetallic compounds with multiple bonds and comparison with experiment. (A12). 463991

fabrication

Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846

intermetallic compounds

Crystal chemistry of actinide inter- and semimetals. (B22). 469309

ACTINIDE COMPLEXES:

See also *ACTINIUM COMPLEXES*; *AMERICIUM COMPLEXES*; *CURIUM COMPLEXES*; *NEPTUNIUM COMPLEXES*; *PLUTONIUM COMPLEXES*; *THORIUM COMPLEXES*; *URANIUM COMPLEXES*; *URANYL COMPLEXES*

Trivalent 4f and 5f ions pseudohalides complexes. (B12; nitrides, cyanides, thiocyanates). 465364

extraction chromatography

Correlation of extraction chromatography with liquid extraction. (B12). 468688

Extraction chromatography of actinides. (B31). 469511

nuclear magnetic resonance

Study by nuclear magnetic resonance of lanthanide and actinide complexes. (B12, B13, A13). 484063

ACTINIDE COMPOUNDS:

See also more specific entries as listed in the *INIS Thesaurus*.

chromatography

Anion exchange behaviour of elements in orthophosphoric and acid medium. (B11). 493528

electronic structure

Electronic structure of f-block compounds. (A12, B22). 467196

energy-level transitions

The influence of charge-transfer and Rydberg states on the luminescence properties of lanthanides and actinides. (B12, A13, A12). 460441

Optical spectroscopy of f-element compounds. (B11). 460381

luminescence

The influence of charge-transfer and Rydberg states on the luminescence properties of lanthanides and actinides. (B12, A13, A12). 460441

oxidation

Method for the oxidation of low-valency materials dissolved in liquid. (B16). 486808

redox potential

Correlation between quantity of 5f-electrons and redox potentials of MsUp(4)-Msup(3) and Msup(3)-Msup(2) pairs actinides. (B13). 479099

solubility

Solubility characteristics of some laboratory-produced mixed actinide oxide aerosols. (B13). 468915

solvent extraction

Quantitative description of the effect of concentration composition of aqueous phase on extraction by means of linear relations of free energy. (B13). 476162

Optical spectroscopy of f-element compounds. (B11). 460381

spectroscopy

Evaluation of chemical hydration heats and hydration numbers of trivalent actinoid ions. (B13). 479100

thermodynamic properties**valence**

Valence transitions and intermediate valence states in rare earth and actinide materials. (B22). 476321

x-ray diffraction

Structure and lattice parameters of actinide metals and compounds at low temperatures. (B22). 469114

ACTINIDE NUCLEI:

See also more specific entries as listed in the *INIS Thesaurus*.

alpha decay

Report on the IAEA coordinated research program on the measurement and evaluation of transactinium isotope nuclear decay data. (A34). [Data] 486449

data

Symposium summary: nuclear data problems for thermal reactor applications. (E21, A34). 491717

energy-level transitions

Report on the IAEA coordinated research program on the measurement and evaluation of transactinium isotope nuclear decay data. (A34). [Data] 486449

fission

Experimental survey of the potential energy surfaces associated with fission. (A33; Mass and axial symmetry, probability). [Data] 481473

fission barrier

Experimental survey of the potential energy surfaces associated with fission. (A33; Mass and axial symmetry, probability). [Data] 481473

harmonic oscillator models

New modified oscillator potential for nuclei in the actinide region. (A33). [Data] 481465

spontaneous fission

Fission properties of very heavy actinides. (A34; Review, fragment shell effects, half-lives). 486393

Report on the IAEA coordinated research program on the measurement and evaluation of transactinium isotope nuclear

- decay data. (A34). [Data] 486449
- transmutation**
- Report of the working group on the transmutation of actinides. (E52, D13). 471087
- ACTINIDES:**
- See also *ACTINIUM; AMERICIUM; BERKELIUM; CALIFORNIUM; CURIUM; DEPLETED URANIUM; EINSTEINIUM; ENRICHED URANIUM; FERMIUM; HIGHLY ENRICHED URANIUM; NATURAL URANIUM; NEPTUNIUM; PLUTONIUM; PROTACTINIUM; SLIGHTLY ENRICHED URANIUM; THORIUM; URANIUM; URANIUM-ALPHA*
- adsorption**
- Application of inorganic sorbent in actinide separation processes. (E51). 466883
- Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52, B31). [Data] 492258
- availability**
- Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). [Data] 479564
- chemisorption**
- Fixation mechanism between zeolite and some radioactive elements. (B16, B13). 462818
- chromatography**
- Removal of americium and curium from high-level wastes. (E51; DHDECMP; OPIX; Talspeak). 477459
- clearance**
- FDA IND approval for Zn-DTPA, new clinical agent for decorporation therapy of actinides. (C21). 487298
- crystallography**
- Crystal chemistry of transuranium pnictides. (B13). 476118
- diffusion**
- Actinide diffusion in waste glasses. (A13, B24, E51). 467438
- electronic structure**
- Electronic structure of f-block compounds. (A12, B22). 467196
- Theory of electronic structure of rare earth and actinide metals using Hubbard's alloy approximation. (A13). 477935
- energy levels**
- The thermodynamic functions of gaseous actinide elements. (B12). 476057
- environment**
- Chemical factors controlling actinide sorption in the environment. (B32, B31). 487130
- fission**
- From 'transuranics' to nuclear fission and transuranics. (B13, A34). 481721
- health hazards**
- Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). [Data] 479564
- leaching**
- Chemical compatibility of HLW borosilicate glasses with actinides. (E52). 471093
- magnetic properties**
- Magnetic properties of lanthanides and actinides. (B12). 493729
- neutron reactions**
- Report on the IAEA coordinated research programme on the intercomparison of evaluations of actinide neutron nuclear data. (A34). 475861
- perrhenates**
- Study of oxygenated compounds of rhenium VII: actinide perrhenates, molybdo- and tungstoperhenates. (B13). [Data] 490463
- photochemistry**
- Photochemistry of the actinides. (B13, B12, B16). 479119
- quantitative chemical analysis**
- Radiochemistry Division annual progress report for 1976. (B13). 493762
- radioactive waste processing**
- Application of inorganic sorbent in actinide separation processes. (E51). 466883
- redox potential**
- On the nature of correlation between redox potentials for actinoid elements and electronic spectra of their compounds in solutions. (B13). 476130
- self-diffusion**
- Contribution to the study of diffusion in rare earth metals and actinides. (B22). 469237
- separation processes**
- Process for the removal of metals from organic solutions. (B16). 479333
- Recent Savannah River experience and development with actinide separations. (B11, B16, B13). [Data] 490320
- solvent extraction**
- Actinide partitioning from ICPP waste: an investigation of methods to eliminate mercury interference. (E51, B16). 488334
- Cleanex process: a versatile solvent extraction process for recovery and purification of lanthanides, americium, and curium. (B16). 476204
- Experimental mixer-settler actinide partitioning from ICPP acidic wastes. (E51). [Data] 495189
- Method of separating actinide elements. (B13). 484078
- Removal of americium and curium from high-level wastes. (E51; DHDECMP; OPIX; Talspeak). 477459
- Study of bidentate compounds for separation of actinides from commercial LWR reprocessing wastes. (E51, B16). 492237
- spin**
- Spin fluctuations in metals: application to the actinides. (B22, A13). 462865
- thermodynamics**
- The thermodynamic functions of gaseous actinide elements. (B12). 476057
- transmutation**
- Burning actinides in very hard spectrum reactors. (E21, E52). 470502
- x-ray diffraction**
- Structure and lattice parameters of actinide metals and compounds at low temperatures. (B22). 469114
- ACTINIUM:**
- seawater**
- Radium, thorium, and actinium extraction from seawater using an improved manganese-oxide-coated fiber. (B12). 484052
- ACTINIUM C /:**
- See *POLONIUM 211*
- ACTINIUM CII/:**
- See *THALLIUM 207*
- ACTINIUM COMPLEXES:**
- stability**
- Use of system of ligand parameters (fsub(L)) for prediction of stability of europium(2), radium, actinium and promethium complexes. (B12, B13). [Data] 478983
- ACTINIUM D:**
- See *LEAD 207*
- ACTINIUM ISOTOPES:**
- See also *ACTINIUM 227*
- ACTINIUM 227:**
- rotational states**
- The decay of ²²¹Pa. (A34). 483932
- ACTINOMYCIN:**
- chromosomal aberrations**
- Increasing effect of caffeine, actinomycin D, and hyperthermia on the yield of radiation induced chromosomal aberrations at different stages of mitotic cycle of man cells. (C11). 479779
- neoplasms**
- Irradiation radiosensibilisation of tissue culture and man neoplasms with actinomycines. (C11, C15). 479746
- tissue cultures**
- Irradiation radiosensibilisation of tissue culture and man neoplasms with actinomycines. (C11, C15). 479746
- tumor cells**
- The use of estimating the sensitivity of tumours to cytostatics with ¹²⁵I-iododeoxyuridine in the clinical and research work. (C62). 476781
- ACTIVATED CARBON:**
- Activated carbon material. (B12, E51; Patent). 460458
- adsorption**
- Dynamic adsorption of radon on activated carbon. (E51, C54, B31). 480855
- chemical preparation**
- Preparation and investigation of ion exchange properties of sorbent based on activated carbon BAU and zirconium hydroxide. (B12). 478913
- Preparation and properties of the zinc-activated carbon composite adsorbent for extraction of uranium from sea water. (B13). 472488
- microstructure**
- Effect of pore structure on the activated carbon's capability to sorb airborne methylradioiodine. (E51, B24). 480839
- poisoning**
- Evaluation and control of poisoning of impregnated carbons used for organic iodide removal. (E51). 480840
- uranium**
- Preparation and properties of the zinc-activated carbon composite adsorbent for extraction of uranium from sea water. (B13). 472488
- ACTIVATION (CHEMICAL):**
- See *CHEMICAL ACTIVATION*
- ACTIVATION (RADIO):**
- See *RADIOACTIVATION*
- ACTIVATION ANALYSIS:**
- (Before the introduction of the specific narrower terms in November 1978, all types of activation analysis were indexed to the above descriptor.)
- See also *CHARGED-PARTICLE ACTIVATION AN; NEUTRON ACTIVATION ANALYSIS; PHOTON ACTIVATION ANALYSIS*
- Activation analysis of elements with Z=22-31 on charged particles with registration of roentgen radiation. (B11). 490300
- Activation analysis. Chapter 4. (B11). 483944
- Analysis of elements by means of excitation of characteristic roentgen radiation with charged particles. (B11). 490301
- Determination of 22 elements in geological samples by instrumental neutron activation analysis. (B11). [Data] 460384
- Neutron activation analysis. (C61). 482314
- accuracy**
- Applications of neutron activation analysis (NAA) to energy and environmentally related problems. (B31, C52, B11). 460831
- Parametric neutron activation analysis of samples generating complex γ-ray spectra. (B11; Neutron reactions). [Data] 472381
- automation**
- Activation analysis automation using Robotron PRS 4000 computer. (E42, B11). 477447
- calibration standards**
- Determination of chromium in Bowen's kale, NBS bovine liver, and brewers yeast, before and after dry ashing. (B11; Bowen's kale, NBS bovine liver, Brewers yeast). 486555
- data processing**
- Use of regularization method in activation and x-ray diffraction analysis. (F51). 495283
- deuteron reactions**
- The determination of carbon in aluminium by deuteron activation analysis. (B11). 483968
- The determination of carbon in the refractory metals zirconium,

- niobium, tantalum and tungsten by instrumental deuteron activation analysis. (B11). 484011
- fission products**
- Separation of heavier rare earths from neutron irradiated uranium targets. (B11, B16). 465249
- geophysical surveys**
- Neutron-activation prospecting for fluorine buried aureoles. (D22). 491434
- gold 197**
- Possibility of determination of gold using sup(197m)Au (T = 7.2 s) isomer and fast neutrons. (B11). 462672
- in vivo**
- Facility for regional in vivo neutron activation analysis of skeletal calcium. (E41, C61). [Data] 463713
- A system for measuring total body calcium in man using the ⁴⁰Ca(n, α)³⁷Ar reaction. (B11, C61). [Data] 462667
- mercury**
- Low level mercury analysis by neutron activation analysis. (B11). [Data] 462671
- minerals**
- Determination of volatile trace elements in terrestrial minerals and lunar soils by RNAA. (B11). [Data] 465259
- molluscs**
- Trace elements in mussels (*mytilus edulis*) from German coastal waters. (B32, B11). 469541
- multi-element analysis**
- Application of displacement- and exchange reactions in neutron activation and isotope dilution analysis. (B11). 460414
- nitrogen**
- Selection of single grain seeds by ¹⁴N(n, γ)¹⁵N nuclear reaction for protein improvement. (C41). 469840
- on-line measurement systems**
- Experience gained upon industrial application of on-line activation analysis in flotation. (D22, B11). 482527
- optimization**
- Modified optimization of the cycle period in cyclic activation analysis. (B11). 465276
- ore processing**
- Ore prospecting, exploring and processing techniques by use of radionuclides. (D22, B11, B31). 476870
- petroleum**
- Determination of 18 trace elements in petroleum and its derivatives by neutron activation with a small nuclear reactor. (B11). 460374
- pulsed irradiation**
- Possibility of determination of gold using sup(197m)Au (T = 7.2 s) isomer and fast neutrons. (B11). 462672
- quantitative chemical analysis**
- Applications of neutron activation analysis in chemistry and pollution fields. (B11). 481634
- reviews**
- Adventures in activation analysis, 1953-1978. (F61, B11). 474397
- Status and role of activation analysis. (B11). 468637
- sample preparation**
- Determination of uranium in sea water by preconcentration on Chellex 100 and neutron activation. (B11, B32). 460400
- The determination of uranium in groundwater by preconcentration of active charcoal and delayed neutron counting. (B11). 462647
- Epithermal neutron activation determination of uranium in environmental waters by neptunium-239 after preconcentration on activated carbon. (B11, B32). 460411
- sensitivity**
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- Sensitivity of radioisotope methods of analysis. (B11). [Data] 478863
- spatial distribution**
- Optimal absorption thickness for gamma-scanning activation analysis. (B11, E41). 462670
- tantalum compounds**
- Neutron activation determination of tantalum using extraction separation of the brilliant green tantalumfluoride. (D22). 470260
- united kingdom**
- Adventures in activation analysis, 1953-1978. (F61, B11). 474397
- uranium**
- Epithermal neutron activation determination of uranium in environmental waters by neptunium-239 after preconcentration on activated carbon. (B11, B32). 460411
- uses**
- Applications of neutron activation analysis (NAA) to archaeology and the humanities. (B11). 460373
- In vivo analysis of bone calcium by local neutron activation of the hand: results in normal and osteoporotic subjects. (B11, C62, C15). [Data] 472368
- yeasts**
- Instrumental neutron activation analysis of brewer's yeast. (B11). [Data] 462644
- ACTIVATION DETECTORS:**
- chemical preparation**
- Process to produce pellet-shaped neutron activation detector elements. (E41, B24). 488218
- Process to produce pellet-shaped neutron activation detector elements. (E41, B24, E24). 474023
- comparative evaluations**
- Results of Czechoslovak comparison of the measurements on a ²⁵²Cf neutron source. (C55, E41). 484696
- data processing**
- Method of data processing for plutonium detectors in activation analysis. (E41). 466747
- in core instruments**
- Method to produce semiconductor detectors. (E41, B24, A13). 461833
- integral cross sections**
- Attempts at the adjustment of detector cross sections. (A34, E21). [Data] 483901
- neutron flux**
- Macroflux measurement in zone 12.7/3.6 with F7, B7 type irregularities. (E21). [Data] 484890
- performance**
- A highly sensitive silver-activation detector for pulsed neutron sources. (E41). 470957
- Utilization of the O-16(n,p) reaction in monitoring 14 MeV neutrons and determining phantom attenuation characteristics. (D15, A31, E41). 461460
- response functions**
- Linearity assumption in adjustment procedures. (E41, A31). 466839
- Neutron detection using Dy₂O₃ activation detectors. (E41). [Data] 463716
- thermoluminescence**
- Thermal neutron detection by activation of CaSO₄:Dy + KBr thermoluminescent phosphors. (E41). 492096
- ACTIVATION ENERGY:**
- Free energy of activation. Definition, properties, and dependent variables with special reference to linear free energy relations. (B12). 460489
- ACTIVATION HEAT:**
- See *ACTIVATION ENERGY*
- ACTIVITY LEVELS:**
- See *RADIOACTIVITY*
- ACTIVITY METERS:**
- ionization chambers**
- Activity meter. (E41). 477332
- multi-channel analyzers**
- Multiple channel activity measurement with peak-proportional automatic Compton scattering subtraction. (E41). 480787
- recording systems**
- Tape transport mechanism. (E41; Patent; air sample collecting by porous tape for remote working level meter). 495101
- ACTIVITY TRANSPORT:**
- See *RADIOACTIVITY TRANSPORT*
- ACUTE IRRADIATION:**
- survival curves**
- Evaluation of protracted low dose rate irradiation from an acute dose survival curve. (C15; Short-lived radioisotope implants used in radiotherapy). 469702
- ACYL RADICALS:**
- See also *FORMYL RADICALS*
- chemiluminescence**
- A search for luminescent free radical recombination. (A12). 485385
- ADAMANTANE:**
- See *CYCLOALKANES*
- ADDITIVES:**
- See also *DETERGENTS*
- ADENINES:**
- binding energy**
- Charge-migration phenomena in γ-irradiated costacking complexes of DNA nucleotides. II. An ESR study of various complexes in frozen solution. (C11, B14). [Data] 479748
- synthesis**
- Chemical and biological studies on nucleic acid derivatives. Progress report, August 1, 1977 - July 31, 1978. (B12). 468705
- ADENOCARCINOMAS:**
- See *CARCINOMAS*
- ADENOMAS:**
- diagnosis**
- Concentration of radiolabeled cholesterol in a feminizing adenoma of the testis. (C62, C21; 19-[¹³¹I]-iodocholesterol). 473455
- irradiation procedures**
- Technique for mobile irradiation of hypophysis adenomas by 25 MeV bremsstrahlung. (C63). 494639
- radiation effects**
- Parathyroid adenomas following irradiation. (C15). [Data] 476595
- Rat differences in mammary tumor induction with estrogen and neutron radiation. (C14; Diethylstilbestrol). 487228
- Respiratory tract tumors in Syrian hamsters following inhalation of Pu-ZrO₂ particles. (C21; Comparison with incidence of lung tumors following intravenous injection of PuO₂/ZrO₂ microspheres). 473099
- radionuclide kinetics**
- Concentration of radiolabeled cholesterol in a feminizing adenoma of the testis. (C62, C21; 19-[¹³¹I]-iodocholesterol). 473455
- radiotherapy**
- The role of the ray therapy in the treatment of tumours of the parotid gland. (C15). 494321
- ADENOSINE:**
- hydrolysis**
- Secondary deuterium isotope effects for acid-catalyzed hydrolysis of inosine and adenosine. (B12). 462739
- ADENOSINE MONOPHOSPHATE:**
- See *AMP*
- ADENOSINE TRIPHOSPHATASE:**
- See *ATP-ASE*
- ADENOSINE TRIPHOSPHATE:**
- See *ATP*
- ADENOVIRUS:**
- interferon**
- Interferon induction by adenoviruses. (C11). [Data] 472900
- irradiation**
- γ-ray-enhanced reactivation of UV-irradiated adenovirus in normal human fibroblasts. (C12). 476538
- ADGEZATOR:**
- See *ELECTRON-RING ACCELERATORS*

ADHESION:

physical radiation effects

- Irradiation effects on the weldability and adhesiveness of polypropylene. (B25). 481896

tracer techniques

- Method for testing the adhesion between the rubber compound and the cord fabric of a pneumatic tyre. (D24). 491439

ADHESIVES:

chemical radiation effects

- Adhesive compound that will cross-link under irradiation. (D23). 463508

- Radiation curable pressure sensitive adhesive composition. (B14; Patent, uv or electron beams). 465486

ADIABATIC APPROXIMATION:

harteck-fock method

- A study of the adiabaticity of TDHF solutions. (A33). [Data] 493173

ADIABATIC COMPRESSION HEATING:

implosions

- Stabilized imploding liner research for high magnetic field plasma compression. (A14). 483407

plasma instability

- Experimental study of instabilities associated to a fast magnetic compression heating. (A14). 462383

ADIABATIC DEMAGNETIZATION:

antiferromagnetic materials

- Nuclear adiabatic demagnetization of two proton systems in singlet ground state magnetic salt. (A17). 462513

cryogenics

- Nuclear refrigeration of liquid ^3He . (A17). 462517

ADIABATIC INVARIANCE:

ergodic hypothesis

- Goodness of ergodic adiabatic invariants. (A14). 489297

ADIABATIC TOROIDAL COMPRESSORS:

See ATC DEVICES

ADIPOSE TISSUE:

diagnosis

- Subdiaphragmatic adiposity mimicking ascites by liver-lung scintigraphy. (C62; /sup 99mTc-macroaggregated albumin and /sup 99mTc-sulfur colloid). 487725

radiation doses

- Evaluation of the health hazard from inhaled krypton-85. (C21). [Data] 473045

radionuclide kinetics

- Evaluation of the health hazard from inhaled krypton-85. (C21). [Data] 473045

ADMINISTRATION:

See MANAGEMENT

ADONE:

photon beams

- Frascati: monochromatic polarized photon beam. (E16). 480417

ADRENAL GLANDS:

biological effects

- Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). [Data] 476568

biological radiation effects

- Adrenal activity of adult rats irradiated with 150 rads during fetal life. (C14; Gamma radiation). 461032

- Ultrastructure of cell elements of adrenal cortex and ovaries under ionizing irradiation. (C14). 479828

biomedical radiography

- Angiographic diagnosis of adrenal glands neoplasms. (C61). 480257

diagnosis

- Some pharmacological preparations uses with the purpose of adrenal gland visualization improvement with ^{19}I -iodocholesterol- ^{131}I . (C62). 470160

diagnostic techniques

- Radioimmunoassay of 17α -hydroxyprogesterone in whole saliva and parotid fluid of children with congenital adrenal hyperplasia. (C61). 463456

early radiation effects

- Adrenal secretory granule ATP content and ATP-ase activity in radiation damage. (C14). 463144

- The role of early response of adrenocortical system to extreme effects while forming radioresistance. (C14). 479847

image intensifiers

- Some pharmacological preparations uses with the purpose of adrenal gland visualization improvement with ^{19}I -iodocholesterol- ^{131}I . (C62). 470160

prenatal irradiation

- Postnatal development of adrenals in animals irradiated in utero. (C14). 466064

radiation injuries

- Response of adrenal cortex and its implication in pathogenesis of radiation disease. (C14). 466065

radiosensitivity

- Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). [Data] 476568

- High-frequency rhythms of adrenal system adaptive response to extreme stimuli and body radioresistance. (C14). 463143

scintiscanning

- ^{131}I - ^{19}I -iodocholesterol scintigraphy and suprarenal pathology. (C62). 484747

- Adrenal imaging. (C62). 484757

- Adrenal scintigraphy. (C45). 479990

- Computer assistance: an essential for adrenal imaging. (C62). 491328

- Diagnostic evaluation of the adrenal scanning using ^{131}I -adosterol. (C62). 491357

- Evaluation of steroid laboratory tests and adrenal gland imaging with radiocholesterol in the aetiological diagnosis of Cushing's

- syndrome. (C62). 480263

- Imaging the adrenal medulla with an ^{131}I -labeled antiadrenergic agent. (C62; Breylium analogs). 473496

- Quantitative scintiscanning in the diagnosis of adrenal cortex lesions. (C62). 470071

- Radioisotope investigation of adrenal glands in diagnosis of the diseases of hypothalamus-hypophysis-adrenal glands system. (C62). 482330

- Scintigraphic diagnosis of suprarenal tumours. Comparative advantages of ^{131}I - ^{19}I -iodocholesterol and 6-methyl- ^{75}Se -selenocholesterol. (C62). 484725

- Survey of 26 suprarenal scintigraphs on Cushing's syndrome patients. (C62). 484761

whole-body irradiation

- The role of cortisone acetate in liver RNA synthesis of gamma-irradiated rats. (C14). 463102

ADRENAL HORMONES:

See also ADRENALINE; ALDOSTERONE; CORTICOSTEROIDS;

CORTICOSTERONE; GLUCOCORTICIDS; HYDROCORTISONE;

NORADRENALINE; PREDNISOLONE; PREDNISONE

ADRENALECTOMY:

biological effects

- Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). 476568

radiosensitivity

- Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). 476568

ADRENALINE:

photochemistry

- Photochemical decomposition of catecholamines. (C11). 484458

ADRENOCORTICOTROPIC HORMONE:

See ACTH

ADSORBENTS:

See also ACTIVATED CARBON; MOLECULAR SIEVES; SILICA GEL

isotope separation

- Method and device for activating and regenerating adsorbents used for enrichment of hydrogen isotope. (D13). 473561

performance testing

- Investigation of air cleaning processes for removing tributyl phosphate vapors from fuel reprocessing off-gas streams. (E51, B16). 480848

research programs

- Development of ultrafiltration and adsorbents: October 1978 - March 1979. (E51). 488328

separation processes

- Magnetically attractable material for use in immunoassay. (C45). 482171

ADSORPTION:

atoms

- Coverage of foreign atoms on surfaces as a function of adsorption, sputtering, and diffusion rates. (A13). 483263

auger electron spectroscopy

- AES study of the adsorption of O_2 , CO , CO_2 , and H_2O on indium. (B22). 476322

nitrogen

- The effects of oxygen and nitrogen adsorption on secondary ion energy spectra. (A13). 489049

oxygen

- The effects of oxygen and nitrogen adsorption on secondary ion energy spectra. (A13). 489049

radioisotopes

- Sorption and separation of radionuclides from aqueous solutions on hydrated oxides and some in soluble salts. (B13). 481705

reaction kinetics

- On the nature of adsorption maximum of radioelements. (B13). 476140

teab

- Adsorption of Et_4NBr at the mercury/electrolyte interface from water and heavy water solutions. (B12). 460480

temperature dependence

- Effect of temperature and hydroxy-Al interlayers on Cs selectivity and fixation in river suspensions and soils. Final report. (B32, B31, C52, B12). [Data] 487135

tungsten

- Iron adsorption on tungsten. (B22). 476341

ADU:

dissolution

- Dissolution testing of intermediary products in uranium dioxide production by the sol-gel method. (B23). 484288

grain size

- Properties of raw materials and intermediate products in the production of uranium dioxide sintered tablets. (B23). [Data] 462925

ADULTS:

delayed radiation effects

- Long-term effects of ^{239}Pu injection in adult, weanling, newborn and fetal rats. (C21). 473090

radionuclide kinetics

- Gastrointestinal absorption and retention of thorium-228 in adult and neonatal rats. (C21). 473097

ADV. GAS COOLED GRAPH. MODERAT:

See AGR TYPE REACTORS

ADV. TEST IDAHO REACTOR:

See ATR REACTOR

ADV. THERMAL REACTOR FUGEN:

See JATR REACTOR

AEC-NIM:

See NUCLEAR INSTRUMENT MODULES

AECL:

See ATOMIC ENERGY OF CANADA LTD

AERE:

research programs

- Neutron beam studies. (A31). 472119
 Nuclear Physics Division progress report for the period 1st January to 31st December 1978. (A33, A34). 472214
 A review of Harwell's commercial activities 1978. (F61). 492380

AERIAL MONITORING:

- Aerial measuring systems program. (E41, E42). 477363
 data processing
 Aerial radiometric data modeling program. (D22). 480311
 The processing and interpretation of airborne gamma-ray spectrometer data. (B31, F31). 469510
 gaseous wastes
 Monitoring methods for radioactive noble gases in airborne effluents from nuclear power plants. (C55, E41). 470015
 iodine
 Monitoring of radioiodine in gaseous effluents at the Bhabha Atomic Research Centre, India. (C55, E41). 470004
 liquid scintillation detectors
 Monitoring of radioactive gases in air by adsorption. (C55, E41). 484694

thorium

- Airborne radiometric surveys, equipment and practical considerations. (B31). 469478

uranium

- Airborne radiometric surveys, equipment and practical considerations. (B31). 469478

AERIAL PROSPECTING:

data

- NDA technology for uranium resource evaluation. Progress report, January 1 - June 30, 1978. (E52). 471073

gamma spectroscopy

- Uranium prospecting today - and what to expect tomorrow. (B31). 494180

mexico

- Radiometric geological exploration method used in the central part of the State of Sonora. (B31). 462970

thorium

- Airborne radiometric surveys, equipment and practical considerations. (B31). 469478

uranium

- Airborne radiometric surveys, equipment and practical considerations. (B31). 469478

AERIAL SURVEYING:

See AERIAL MONITORING

AEROSOL GENERATORS:

- Respirable aerosols from a Trost air jet mill/Wright dust feed aerosol generator. (C52, E42). [Data] 473245

fabrication

- Apparatus for ultrasonic nebulization. (E13; Patent). 470342

mechanical efficiency

- Sodium chloride aerosol generation method for high efficiency particulate air filter testing. (E13). 487852

performance

- Apparatus for ultrasonic nebulization. (E13; Patent). 470342

performance testing

- Generation and characterization of condensation aerosols of V_2O_5 and pyrene. (C52, E42). 469972

- Generation and characterization of submicron ammonium sulfate and ammonium hydrogen sulfate aerosols. (C52, E42). 469973

- Generation of selenious acid aerosols. (C52, E42). 469898

- Mixed trace metal oxide aerosols: preliminary report on the generation and characterization of Y_2O_3 - V_2O_5 condensation aerosols. (C52, E42). 469926

- Production of monodisperse Fe_2O_3 aerosols as test standards with a 'spinning top' generator. (E42). 466855

sodium chlorides

- Sodium chloride aerosol generation method for high efficiency particulate air filter testing. (E13). 487852

AEROSOL MONITORING:

- Aerosol detector. (E42). 482880

- Dilution probe for an aerosol mass monitor. (E42). 474139

beryllium

- A non-chemical spectroscopic determination of atmospheric beryllium. (B33, C21, B11). 463017

- Prompt response monitoring of beryllium in air. (C52, C21). 463391

electrodes

- Smoke detectors. (D22). 494666

errors

- Sampling procedures for the monitoring of radioactivity in air. (E42). 470990

microprocessors

- Microprocessor-controlled inhalation system for repeated exposure of animals to aerosols. (C52). 476684

radioactive materials

- Smoke detectors. (D22). 494666

radon

- A time-integrating environmental radon daughter monitor. (E41). 488244

AEROSOL WASTES:

See also FLY ASH

fissionable materials

- Isolation and characterization of individual plutonium-bearing particles in atmospheric effluents from a nuclear processing plant. (C52, B13, E52). 487570

AEROSOLS:

- See also RADIOACTIVE AEROSOLS; SMOKES; TOBACCO SMOKES
 Aerosol formation in urban plumes over Lake Michigan. (C52). 480116

- Estimates for wet and dry removals' contribution to the residence

- time for atmospheric pollutants in the eastern United States. (C52). 487601

- Generation of selenious acid aerosols. (C52, E42). 469898

- Source-term study of plutonium-bearing particulates in a nuclear fuel reprocessing plant. (B33, B31, C52; ^{239}Pu). 479722

- 1978 annual report: aerosol characterization from a simulated HCDA. (C52). 480172

activation analysis

- Determination of nitrogen in atmospheric aerosols by proton activation analysis. (B11; Proton reactions). [Data] 478799

adsorption

- Filtration of sodium-fire aerosols. (B24, E35). 472710

chemical composition

- Aerosol sampling of an experimental fluidized bed coal combustor. (C52). 469943

chemical reactions

- Chemical reactions of sodium fire aerosols in the free atmosphere. (C52, B12, E35). [Data] 461223

concretes

- Fast reactor programme. (E35, F62, E21). 470751

deposition

- Particle dry-deposition experiment using ambient airborne soil. (C52). 480146

- Profile measurements of aerosol deposition. (C52). 480047

- Resuspension of toxic aerosol using MATHEW-ADPIC wind field - transport and diffusion codes. (C52, B33). 491186

dissolution

- Dissolution of LMFBR fuel-sodium aerosols. (B33; Plutonium dioxide). [Data] 472864

electric charges

- Electrical charging of macroscopic particles using a beta source and electric and magnetic fields. (D23). 487811

heat transfer

- Analysis of the heat and mass transfer processes of a UO_2 bubble in sodium for the Fuel Aerosol Simulant Test (FAST). (C52, E35; LMFBR). 487589

inhalation

- Biological behavior of mixed LMFBR-fuel-sodium aerosols. (B33, C21; Rats, ^{239}Pu). [Data] 472878

- Respirable aerosols from a Trost air jet mill/Wright dust feed aerosol generator. (C52, E42). [Data] 473245

iodine 131

- Measurement of the concentration of airborne radioiodine. (B33). 472895

mass transfer

- Analysis of the heat and mass transfer processes of a UO_2 bubble in sodium for the Fuel Aerosol Simulant Test (FAST). (C52, E35; LMFBR). 487589

mathematical models

- One-dimensional model describing aerosol formation and evolution in the stratosphere: II. Sensitivity studies and comparison with observations. (C52). 487593

- One-dimensional model describing aerosol formation and evolution in the stratosphere: I. Physical processes and mathematical analogs. (C52). 487594

measuring methods

- Aerosol and visibility measurements in mountainous terrain. (C52). [Data] 480121

nucleation

- The behaviour of highly concentrated aerosols in a condensing steam atmosphere. (B12, C52). 460447

particle resuspension

- Resuspension of toxic aerosol using MATHEW-ADPIC wind field - transport and diffusion codes. (C52, B33). 491186

particle size

- Activity and size distributions of aerosols in the Laboratory for experimental fuels AEE Winfrith. (C52, B12). [Data] 463385

- Determination of the particle size distribution of aerosols by means of a diffusion battery. (B33). 469563

- Measurement of specific alpha radioactivity with respect to size for uranium ore dust using aerosol centrifuge. (C51). 487391

- Variation of specific surface area with particle size. (C52; Trace metal aerosols). 473258

photoemission

- Interaction of radiation with matter. (A12, A32). 474635

photometry

- Photodetection of aerosol concentration. (E42, C52). 474143

quantitative chemical analysis

- Considerations of the enrichment, sources, and flux of arsenic in the troposphere. (C52). 487604

- Inorganic constituents in an experimental fluidized bed coal combustor exhaust stream. (C52). 469976

- Tropospheric arsenic over marine and continental regions. (C52, B11). 487603

radioactivity

- Activity and size distributions of aerosols in the Laboratory for experimental fuels AEE Winfrith. (C52, B12). [Data] 463385

- Radioactivity measurement of radon-222 and its daughters in rooms. (D15). 470254

sampling

- Effect of collection substrates on performance and wall losses in cascade impactors. (C52, E42). 469949

- Some operating characteristics of slit jet virtual cascade impactors. (B33, E42). 469570

scavenging

- Wet removal of pollutants from winter snowstorms. (C52). 480140

sedimentation

- Device to separate solid particles out of gases. (E13). 484850

- separation processes**
Device to separate solid particles out of gases. (E13). 484850
- simulation**
Experimental investigation of aerosol behavior in a post-LMFBR accident reactor containment atmosphere. Annual report Sep 1977 - Jan 1978. (C52, E35). 466338
- spectrophotometry**
Spectrophotometric analyses of LMFBR fuel-sodium aerosols. (B33; PuO₂, U). 472882
- surfaces**
Variation of specific surface area with particle size. (C52; Trace metal aerosols). 473258
- x-ray emission analysis**
Implantation of the pixe method in the IFUSP (Brazil)-III. (E41). 474049
- AET:**
- mixtures**
Pharmacological study of the action of tryptophan and its combinations. (C14). 466093
- AFRICA:**
See also BOTSWANA; EGYPTIAN ARAB REPUBLIC; MOROCCO; NIGERIA; SOUTH AFRICA; SOUTH WEST AFRICA; SOUTHERN RHODESIA; TRANSVAAL; ZAMBIA
- uranium ores**
Foreign exploration. (B31). 476471
- AFTER-HEAT:**
Application of least-squares method to decay heat evaluation. (E21). 461600
- Study on the similarity between LOFT decay heat and LPWR decay heat. (C52, E36, E32). 469970
- data**
Nuclear data library of fission products for decay power calculation. (C52, E31, E32; BWR; PWR). 491202
- nuclear fuels**
Detailed comparison between decay heat data calculated by the summation method and integral measurements. (E21, A33, A34). 491718
- [Data]**
- reviews**
Evaluation of decay heating in shutdown reactors. (E21). 463565
- time dependence**
The effects of the depletion and buildup of fissile nuclides and of ²³⁸U fast fissions on fission product decay power. Doctoral thesis. (E21). 491722
- uses**
Method for the disposal of especially radioactive wastes. (E51, E52). 471057
- AFTER-HEAT REMOVAL:**
- integrated cooling systems**
Fast neutron reactor. (E35). 470754
- mathematical models**
LMFBR fuel analysis. Task B. Post-accident heat removal. Final report, October 1977 - November 1978. (C52, E35). 487438
- natural convection**
Investigations of decay heat removal by natural convection with boiling in sodium cooled fast reactors. (E35). 466726
- Study of transient and permanent flow in the event of natural convection in a confined environment. (E35). 473992
- pipelines**
After-heat removing device in nuclear power plant. (E31). 473869
- simulation**
Dynamic simulation of LMFBR plant under natural circulation. (C52, E35). 487394
- valves**
Improved valve arrangement for the residual heat removing system in a nuclear power plant. (E22). 470522
- Valve arrangement for a nuclear plant residual heat removal system. (E32; Patent; PWR). 461698
- AFTERGLOW:**
- energy spectra**
Investigation of the electron energy distribution function in an argon afterglow plasma. (A14). 474958
- kinetics**
Helium 3 ³S decay rates in a high-pressure afterglow. (A12, A14). 467245
- AFTERLOADING:**
(Method in radiotherapy whereby empty applicators are first positioned and the radiation source inserted automatically after the personnel has withdrawn.)
- dosimetry**
Dosimetric provision of intracavity afterloading gamma therapy. (C55, C64). 482264
- esophagus**
A proposed afterloading technique for irradiation of the oesophagus. (C63; Iridium 192). 494583
- irradiation devices**
A proposed afterloading technique for irradiation of the oesophagus. (C63; Iridium 192). 494583
- optimization**
Threedimensional optimization method for the interstitial afterloading therapy. (C63). 482481
- radiation dose distributions**
Dose distribution around a new flexible afterloading applicator. (C63, F51). 461426
- radiation sources**
Dose distribution around a new flexible afterloading applicator. (C63, F51). 461426
- AGE ESTIMATION:**
See also ISOTOPE DATING
- activation analysis**
Fossil bones and the paleoclimatology. (B11). 462648
- argon 39**
The application of isochron diagrams in ⁴⁰Ar-³⁹Ar dating: a discussion. (B31). 460868
- argon 40**
The application of isochron diagrams in ⁴⁰Ar-³⁹Ar dating: a discussion. (B31). 460868
- biomedical radiography**
Examination of an Egyptian mummy using a new X-ray technique. (C45). 476653
- carbon 12**
New trends in the field of dating with ¹⁴C isotope. (B31). 472817
- carbon 14**
New trends in the field of dating with ¹⁴C isotope. (B31). 472817
- fission tracks**
Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- Cosmic-ray-induced fission of heavy nuclides: possible influence on apparent ²³⁸U-fission track ages of extraterrestrial samples. (A15). 460040
- Fission track ages of tektites found in recent sediments. (B31). 494216
- Fission track geochronology of Eastern Ghats. (B31). 469533
- minerals**
Analytical method for the K/Ca age determination of geological samples. (B31, B11). 484347
- nucleosynthesis**
Nuclear cosmochronology with the changeable decay constant. (A15). 492874
- thermoluminescence**
Phototransfer method of determining archaeological dose of pottery sherds. (A13). 477939
- Thermoluminescence dating: radiation dose-rate data. (B31). 494184
- AGE GROUPS:**
- biological radiation effects**
Late effects of perinatally administered plutonium. (C21; ²³⁹Pu, rats). 461108
- Long-term segment III beagles scheduled for sacrifice. A progress report. (C14; Gamma radiation). [Data] 479864
- AGGLUTINATION:**
See ANTIGEN-ANTIBODY REACTIONS
- AGGLUTININS:**
See also HEMAGGLUTININS; PHYTOHEMAGGLUTININ
- AGR TYPE REACTORS:**
See also DUNGENESS-B REACTOR; HINKLEY POINT-B REACTOR; HUNTERSTON-B REACTOR
- forecasting**
Advanced gas-cooled reactor has good energy prospects in the electric power industry. (E33). 470688
- fuel cans**
Structure and properties of nitrided stainless steel fuel cladding for use in advanced gas-cooled reactors. (E33). 470696
- fuel elements**
Development of fuel elements for the AGR. (E33). 494969
- fuel pins**
Multi-start helically ribbed fuel pins for CAGR. (E33). 494970
- planning**
AGR design for heysham II and Torness. (E33). 494967
- Towards the standard AGR. (E33). 473941
- Where next, AGR. (E33). 494963
- public relations**
Torness. Keep it green. (C52, E33). 461206
- reactivity**
APRECOT - analysis program for reactivity coefficient tests. (E33). 491938
- reactor components**
Towards the standard AGR. (E33). 473941
- reactor kinetics**
Comparison of one and two neutron group AGR kinetics. (E21). 473764
- On the use of flux-adjoint condensed nuclear data for 1-group AGR kinetics. (E21). 473763
- reactor shutdown**
Training simulator for advanced gas-cooled reactor (AGR) shutdown sequence equipment. (E24, E33). 477181
- reactor simulators**
Training simulator for advanced gas-cooled reactor (AGR) shutdown sequence equipment. (E24, E33). 477181
- reviews**
The engineering development of thermal reactors in the UK. (E33, E32). 470715
- specifications**
Gas Reactor International Cooperative Program. Interim report. Construction and operating experience of selected European Gas-Cooled Reactors. (E33). 491930
- steam generators**
The generation of corrosive conditions in sodium heated steam generators. (B15, E35). 460616
- ultrasonic testing**
Practical applications of fracture mechanics methods for the assessment of large scale structures. (E34, E17). 482786
- united kingdom**
The background and status of the gas cooled reactor in the United Kingdom. (E33). 463642
- AGREEMENTS:**
See also ATOMIC ENERGY AGREEMENTS; BILATERAL AGREEMENTS; IAEA AGREEMENTS; INTERNATIONAL AGREEMENTS; PCOTPL
- AGRICULTURAL INFORMATION SYSTE:**
See AGRIS

AGRICULTURE:

- nuclear power plants**
- Nuclear power plants - a chance for agriculture. (F11). 488400
- radiometric analysis**
- New radiometric and radioanalytical methods in agricultural research. (C41). 463291
- research programs**
- Tropical Agro-Sciences. (C52). 461168

AGRIS:

- developing countries**
- INIS and AGRIS - Their use and potential in developing countries. (F32). 485223

AIR:

See also **SURFACE AIR**

- boundary layers**
- Comparison of stability categories obtained from an acoustic sounder with those obtained from conventional meteorological data. (B31). [Data] 479635
- breakdown**
- Two-dimensional modeling of aerosol-induced breakdown in air. (E14). 491540
- carbon 14 compounds**
- A simple method for measuring low activities of $^{14}\text{CO}_2$. (B11). 465250
- charged-particle transport**
- Determination of W values and backscatter coefficients for slow electrons in air. (A32). 460275
- chemical analysis**
- Environmental monitoring near industrial sites: brominated chemicals. Part II: appendix. Final report 19 Jul-16 Dec 77. (B11, C52). 475899
- contamination**
- Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
- Natural radioactivity examination of the air at ground level near the Zwentendorf nuclear power station. (C52). 491118
- Pollution of atmospheric air with toxic and radioactive particulate matter investigated by means of nuclear techniques. (B33, C55). 484407

- [Data]**
- On a co-current stratified air water flow with wavy interface. (A14). 481173
- low level counting**
- Monitoring of radioactive gases in air by adsorption. (C55, E41). 484694
- meteorology**
- Verification of two simple meteorological models at large travel distances using ten-hour ^{81}Kr measurements. (B33). 479716
- monitoring**
- Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). 479676
- radiation monitoring**
- Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). 479676
- radiometric analysis**
- Instrumentation for monitoring plutonium in the environment. (B33, C22, B11). 487154
- radiosensitivity**
- Inactivation of phage phiX 174 by accelerated ions enhanced delta-ray effect by air layer in front of the samples. (C12; α particles and neon ions). 476542
- shielding**
- Shielding benchmark problems. (A31). [Data] 490011
- stability**
- Comparison of stability categories obtained from an acoustic sounder with those obtained from conventional meteorological data. (B31). [Data] 479635
- tritium recovery**
- Computer modeling and bench-scale testing of air detritiation operations. (A14). 459879

- AIR CLEANING:**
- Air cleaning system isolation during tornado conditions. (C52). 480130
- FISSION 2120: a program for assessing the need for engineered safety feature grade air cleaning systems in post accident environments. (C52). 480112
- Performance of a wet cell washer for sodium fire aerosols. (C52, E35). 480077
- air filters**
- Confirmatory research program: effects of atmospheric contaminants on commercial charcoals. (C52). 480024
- control systems**
- Tritium monitoring at the Sandia Tritium Research Laboratory. (B33, E41). 476481
- efficiency**
- Review of some UKAEA work on gas cleaning in fuel reprocessing plant. (B16, E51). 479329
- failures**
- Failures in air-monitoring, air-cleaning, and ventilation systems in commercial nuclear power plants (Jan. 1, 1975 - June 30, 1978). (C52). 476701
- Review of failures in nuclear air cleaning systems (1975 - 1978). (C52, E31, E32). 480117
- iodine**
- A user's guide to the programs ITRAP-A, ITRAP-B, ITRAP-S and ITRAP-L. (C52). 494418
- maintenance**
- Operational maintenance problems with iodine adsorbers in nuclear power plant service. (E22). 480585

performance testing

- Performance evaluation of an 18,000 CFM fill-in-place adsorber unit. (E22). 480594
- Separation of krypton and xenon from reactor atmospheres by selective permeation. Final report. (C52, E35, C54; LMFBR). 461298
- research programs**
- New air cleanig technology in the United Kingdom. (E51, B16). 480834
- specifications**
- Environment control system. (E22; Patent). 487996
- Report on ANSI/ASME nuclear air and gas treatment standards for nuclear power plants. (C52). 480059
- testing**
- Modification and testing of the Sandia Laboratories Livermore tritium decontamination systems. (E50). 480822
- ventilation**
- System for ventilating air contaminated with radioactivity. (E13). 473636

AIR CONDITIONING:**trombay r-5 reactor**

- Instrumentation of air conditioning and ventilation system - R-5 project. (E13). 463537

AIR COOLED REACTORS:

See also **GLEEP REACTOR**; **HPRR REACTOR**; **TREAT REACTOR**

AIR FILTERS:**activated carbon**

- Device for filtering gaseous media. (E13). 466496
- Filter to be tightly installed in a room as a partition and which can be filled with a contact material susceptible of being poured e.g. activated charcoal for cleaning especially radioactive air or gases in nuclear installations. (E13). 484846
- diesel motors**
- In-service wear investigations on a vehicle's Diesel engine by means of a mobile isotope laboratory. (E17). [Data] 494890
- efficiency**
- In-service wear investigations on a vehicle's Diesel engine by means of a mobile isotope laboratory. (E17). [Data] 494890
- Performance and environmental characteristics of a compact, high-capacity HEPA filter design. (C54). 480180
- The reduction of iodine emissions from nuclear facilities. (C52, E13). 482245
- Use of installed test cannisters for representative sampling of ventilation systems charcoal absorbers. (C52). 480118
- iodine isotopes**
- Particle filter for the adsorption of radioactive impurities of a gas flow. (E13). 482561
- lifetime**
- Confirmatory research program: effects of atmospheric contaminants on commercial charcoals. (C52). 480024
- Review of some UKAEA work on gas cleaning in fuel reprocessing plant. (B16, E51). 479329
- off-gas systems**
- Filter device for cleaning gas or air flows. (E13). 466498
- performance**
- Nucleation and capture of condensable airborne contaminants in an aqueous scrubbing system. (C52, E35, C54; LMFBR). 469950
- performance testing**
- Performance and environmental characteristics of a compact, high-capacity HEPA filter design. (C54). 480180
- *Performance of 1,000 and 1800 CFM HEPA filters on long exposure to low atmospheric dust loadings. (C54). 480175
- quality assurance**
- Evaluation of data from HEPA filter quality assurance testing stations. (C52). [Data] 480037
- radioactive aerosols**
- Refillable particulate filter for adsorbing radioactive impurities in a gas flow. (E13). 476920
- radioactive waste processing**
- Purification of off-gases in a metal-cloth filter while burning solid wastes. (E52). 480892
- transport**
- Mobile dust aspiration and ventilation systems in nuclear engineering: problems as viewed by the operator. (E13). 482569
- uses**
- Control of particulate emissions from nuclear operations. (E51, B33, C54). 466873

AIR POLLUTION:

(For nonradioactive pollution only; for radioactive pollution use **CONTAMINATION**.)

- Dry deposition of atmospheric ozone. (C52). 480048
- Ecosystem Studies Program. (C52). [Data] 480160
- Environmental monitoring report, 1978: Pinellas Plant. (B33, C21). [Data] 487143
- Environmental surveillance at Hanford for CY-1978. (C21, B33, B32). [Data] 487290
- Environmental surveillance at Los Alamos. (B33, B31, B32, C52). [Data] 479705
- Preservation of nitrite ion in solution. (C52). 480042
- Use of ion chromatography for trace analysis of MAP3S precipitation samples. (C52). 480135
- aerial monitoring**
- Aerosol and visibility measurements in mountainous terrain. (C52). [Data] 480121
- Airborne ammonia measurements in the Great Lakes Region. (C52). [Data] 480099
- Analytical procedure for determining C_2 to C_6 hydrocarbons in ambient air. (C52). 480098
- Methods of measurements and examples for the investigation of the atmospheric environment. (B33). 481969

| | | | |
|---|--------|---|--------|
| Summary of the PNL aircraft flights during the MAP3S-SURE cooperative program for summer 1978. (C52). [Data] | 480010 | (C52). [Data] | 487601 |
| aerosols | | Interlaboratory model comparisons of atmospheric concentrations with and without deposition. (B33, C21). [Data] | 479699 |
| Long-range transport of trace elements. (C52). | 487503 | Lagrangian-similarity diffusion-deposition model. (C52). | 480079 |
| carbon monoxide | | Release rates of ⁸⁵ Kr from the Savannah River Plant. (B33). | 479717 |
| Sensitivity of the predicted CO-OH-CH ₃ perturbation to Tropospheric NO/sub x/ concentrations. (B33). [Data] | 465837 | Simple correction to the source-depletion model. (C52). [Data] | 480078 |
| chemical analysis | | Three-dimensional modeling of pollutant releases using second-order moments. (C52). | 480125 |
| Analytical procedure for determining C ₂ to C ₆ hydrocarbons in ambient air. (C52). | 480098 | Verification of two simple meteorological models at large travel distances using ten-hour ⁸⁵ Kr measurements. (B33). [Data] | 479716 |
| Inert tracer wind resuspension as a function of wind speed, atmospheric stability, and initial tracer particle size. (C52). | 480144 | What role can simulation model predictions play in environmental decisions: carbon dioxide as an example. (C52). | 487473 |
| MAP3S precipitation chemistry network. (C52). [Data] | 480041 | measuring methods | |
| Spectroscopic technique for measuring atmospheric CO ₂ . (C52). | 480153 | Airborne plutonium and americium concentrations measured from the top of Rattlesnake Mountain. (B33; ²³⁹ Pu, ²⁴⁰ Pu, ²⁴¹ Am). | 479723 |
| control | | Particle dry-deposition experiment using ambient airborne soil. (C52). [Data] | 480146 |
| Air impact. (C52). [Data] | 494391 | PNL aircraft measurements in the AMBIENS study. (C52). | 480069 |
| Methods development for assessing air pollution control benefits. Volume V, executive summary. (C52). | 494397 | metals | |
| cost | | Radionuclides and trace metals in surface air. (B33, C52, B11). [Data] | 476482 |
| Air impact. (C52). [Data] | 494391 | moessbauer effect | |
| Hydroxyl and peroxy radicals in polluted tropospheric air. (B33). | 479693 | On the determination of sources of iron in atmospheric air by the Moessbauer technique. (B33). | 460926 |
| data processing | | monitoring | |
| JEREMIAH atmospheric transport and dose computational system. (B33, F30). | 479678 | Air and water pollution - annual report, FY 74-76. Technical note. (C52, B33, B32). | 487514 |
| deposition | | Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] | 490849 |
| A review: deposition and resuspension processes. (C52). | 480143 | Balance of the tropospheric ozone and its relation to stratospheric intrusions indicated by cosmogenic radionuclides. Technical progress report, 1 November 1977 - 30 June 1978. (C52, B33; ⁷ Be, ³² P, ³³ P). | 473253 |
| diffusion | | Environmental monitoring report for Pantex Plant covering 1978. (B33, C22, B32, C52, C21). [Data] | 487136 |
| Simple correction to the source-depletion model. (C52). [Data] | 480078 | Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] | 490877 |
| dose limits | | Environmental monitoring near industrial sites: brominated chemicals. Part II: appendix. Final report 19 Jul-16 Dec 77. (B11, C52). | 475899 |
| Establishing exposure limits for chemical pollutants. (C52). | 482213 | Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). [Data] | 479691 |
| ecological concentration | | Feed Materials Production Center environmental monitoring annual report for 1978. (C52, B33, B32, B31). | 487420 |
| Case study of elevated layers of high sulfate concentration. (C52). [Data] | 480115 | Sources of ozone and sulfate in northeastern United States. Annual progress report. (C52; Determination of anthropogenic sources from measurements at Whiteface Mountain, New York). [Data] | 491153 |
| Modifications to MAP3S regional modeling procedures for comparisons of observed and predicted pollutant concentrations. (C52). | 480114 | Trends in other species. (C52). | 487552 |
| Particle dry-deposition experiment using ambient airborne soil. (C52). [Data] | 480146 | nitrogen oxides | |
| education | | Sensitivity of the predicted CO-OH-CH ₃ perturbation to Tropospheric NO/sub x/ concentrations. (B33). [Data] | 465837 |
| Research, demonstration, training, and fellowship awards, April - September FY1977. (C52, E50). | 469907 | particle resuspension | |
| environment | | A review: deposition and resuspension processes. (C52). | 480143 |
| Calculating wind profiles above a pine forest. (B31, B33). [Data] | 479627 | radiation monitoring | |
| Computational systems in support of environmental sciences. (C52, F30). | 480154 | Environmental surveillance report for the Nevada Test Site, January 1978 - December 1978. (B33, B32). | 494238 |
| Cooling tower drift: comprehensive case study. (C52). | 480096 | radioecological concentration | |
| JEREMIAH atmospheric transport and dose computational system. (B33, F30). | 479678 | Three-dimensional modeling of pollutant releases using second-order moments. (C52). | 480125 |
| Method for using acoustic sounder categories to determine atmospheric stability. (C52, B33). | 469962 | reaction kinetics | |
| Operators guide: Atmospheric Release Advisory Capability (ARAC) site facility. (B33). | 479681 | Hydroxyl and peroxy radicals in polluted tropospheric air. (B33). | 479693 |
| Plutonium resuspension. (B33; ²³⁹ Pu, ²⁴⁰ Pu). [Data] | 479724 | research programs | |
| PNL aircraft measurements in the AMBIENS study. (C52). | 480069 | Research, demonstration, training, and fellowship awards, April - September FY1977. (C52, E50). | 469907 |
| Pollutant transformations over Lake Michigan. (C52). | 480009 | scattering | |
| Population exposure estimates from atmospheric effluents from a model fuel reprocessing plant. (B33, C15, C21). [Data] | 479683 | Temporal sampling requirements for long-term atmospheric pollutant dispersion studies. (B33). | 469574 |
| Status of Weather Information and Display (WIND) system. (B33, B31). | 479712 | seasonal variations | |
| Sulfur budget dilemma. (C52). | 480141 | Estimates for wet and dry removals' contribution to the residence time for atmospheric pollutants in the eastern United States. (C52). [Data] | 487601 |
| Summary of the PNL aircraft flights during the MAP3S-SURE cooperative program for summer 1978. (C52). [Data] | 480010 | simulation | |
| Terrestrial Ecology Section. (C52). [Data] | 480073 | Technical progress in the alternate fuel cycle program. II. (C52). | 480043 |
| Tropical Agro-Sciences. (C52). | 461168 | south africa | |
| environmental impact statement | | Trace elements in the atmosphere over South Africa. (B33). | 479734 |
| Final environmental statement related to operation of White Mesa Uranium Project, Energy Fuels Nuclear, Inc. (B33, B31, B32, C52). | 487155 | time measurement | |
| functional models | | Estimates for wet and dry removals' contribution to the residence time for atmospheric pollutants in the eastern United States. (C52). [Data] | 487601 |
| MAP3S modeling development: annual progress. (C52). | 480129 | tracer techniques | |
| Modifications to MAP3S regional modeling procedures for comparisons of observed and predicted pollutant concentrations. (C52). | 480114 | Method of labelling pyrotechnically produced air colloids with a readily activatable tracer. (B33). | 481962 |
| Technical progress in the alternate fuel cycle program. II. (C52). | 480043 | AIR PURIFICATION: | |
| gaussian processes | | See AIR CLEANING | |
| A comparison of Gaussian and diffusivity models of atmospheric dispersion. (C50). | 469890 | AIR QUALITY: | |
| health hazards | | See AIR POLLUTION | |
| Air impact. (C52). [Data] | 494391 | AIR SAMPLERS: | |
| iron | | Particle dry-deposition experiment using ambient airborne soil. (C52). | 480146 |
| On the determination of sources of iron in atmospheric air by the Moessbauer technique. (B33). | 460926 | alpha spectroscopy | |
| lake michigan | | Measurement of radon progeny concentration in air by α -particle spectrometric counting during and after air sampling. (B33). | 487162 |
| Aerosol formation in urban plumes over Lake Michigan. (C52). | 480116 | | |
| mathematical models | | | |
| Air impact. (C52). [Data] | 494391 | | |
| AIRDOS-EPA: A computerized methodology for estimating environmental concentrations and dose to man from airborne releases of radionuclides. (B33, C21). | 487153 | | |
| Derivation of wet removal rates for SO ₂ gas and SO ₄ aerosol. (C52). | 480142 | | |
| Estimates for wet and dry removals' contribution to the residence time for atmospheric pollutants in the eastern United States. | | | |

- filters**
Multiple HEPA filter test methods. Progress report, January - December 1977. (C52). 469964
- losses**
Sampling procedures for the monitoring of radioactivity in air. (E42). 470990
- nuclear facilities**
Indigenous high volume air sampler. (E42, C52). 482883
- performance testing**
Air sampling system for evaluating the thyroid dose commitment due to fission products released from reactor containment. Final report. (E41, B33, C21, C52). [Data] 474058
- Multiple HEPA filter test methods. Progress report, January - December 1977. (C52). 469964
- radon**
Continuous radon monitor. (B11, E41). 486550
A time-integrating environmental radon daughter monitor. (E41). 488244
- tritium**
HT-HTO sampling at the Nevada Test Site. (E42). 492219
Monitoring airborne tritium evolution from small animals in research. (B11). [Data] 472411
- ultrafiltration**
Relative solubility in simulated biological fluids of PuO₂ on air sampler filters. (C21; ²³⁹Pu, ²³⁹Pu). [Data] 473092
- AIR TRANSPORT:**
See also SUPERSONIC TRANSPORT
- turbulent flow**
Application of the subroutine SYSTD in the analytical determination of the laws of velocity and temperature distributions for turbulent flow in air. (E11). 461498
- AIR WALL IONIZATION CHAMBERS:**
See BRAGG GRAY CHAMBERS
- AIRCRAFT:**
accidents
Dynamic analysis of aircraft impact using the linear elastic finite element codes FINEL, SAP and STARDYNE. (C52). 480107
Estimation of nuclear power plant aircraft hazards. (C52). 487491
Notes for a workshop on risk analysis and decision under uncertainty. The practical use of probabilistic and Bayesian methodology in real life risk assessment and decision problems. (C52, E52). 491160
- environment**
Atmospheric nuclear tests of the 1950's and 1960's: A possible test of ozone depletion theories. (B33, C52). 487138
- neutron radiography**
Neutron radiography: status report. (E17). 473746
- AIRCRAFT ACCIDENTS:**
See ACCIDENTS
- AIRGLOW:**
luminescence
Light on the darkness of the night sky. (A15). 492938
- AKM MUEHLEBERG REACTOR:**
See MUEHLEBERG REACTOR
- AKM REACTOR:**
See MUEHLEBERG REACTOR
- ALABAMA:**
geology
Geology of the Birmingham, Gadsden, and Montgomery 1° x 2° NTMS Quadrangles, Alabama. (B31). [Data] 487068
Geology of the Birmingham, Gadsden, and Montgomery 1° x 2° NTMS quadrangles, Alabama. (B31). [Data] 479574
- ALANINE-ALPHA:**
See also ALANINE-L
- ALANINE-BETA:**
electron spin resonance
ESR and ENDOR study of x-irradiated single crystals of β-alanine at room temperature. (B24). [Data] 465703
- endor**
ESR and ENDOR study of x-irradiated single crystals of β-alanine at room temperature. (B24). [Data] 465703
- ALANINE-L:**
physical radiation effects
Thermoluminescence and electron spin resonance studies of irradiated biological single crystals. (B25). 460809
- ALANINES:**
See also ALANINE-BETA; ALANINE-L
- carbon 11**
Syntheses of racemic [1-¹¹C]-alanine and partially resolved [3-¹¹C]-alanine. (B13). 462764
- labelled compounds**
Syntheses of racemic [1-¹¹C]-alanine and partially resolved [3-¹¹C]-alanine. (B13). 462764
- radiolysis**
Corrected G-values for amino acids and their complexes. (B14). [Data] 472544
Radical pair formation in some amino acids at 77K. (B14). 472531
- ALARM DOSEMETERS:**
See RADIATION MONITORS
- ALARM SYSTEMS:**
rf duress alarms: market survey and preliminary characterization. (F41). 488456
- criticality**
The detection of criticality incidents with a gamma dose rate alarm employing an ionization chamber. (E41). [Data] 474056
- data processing**
Microcomputer-based video motion detection system. (F41). 477534
- performance testing**
Analysis of the performance capability of an infrared interior intrusion detector. (F41). 488458
- Evaluation of the Johnson AG-1007-7 (G-7) microwave motion detection system. (F41). 492318
- personnel dosimetry**
Methods for measuring accident doses and dosimetric evaluation of accident situation. (C55, C52). 463435
- personnel monitoring**
A totally new pocket radiation chirper. (E41). 488278
- smokes**
Radiation sources and process. (D14). 482515
- specifications**
Ion smoke detector. (D22). 473587
- ALASKA:**
aerial monitoring
NURE aerial gamma-ray and magnetic reconnaissance survey: Chugach/Yakutat area-Alaska, Bering Glacier Quadrangle. (B31). 460858
- NURE aerial gamma-ray and magnetic reconnaissance survey: Chugach/Yakutat area-Alaska, Yakutat Quadrangle. (B31). 460859
- geochemical surveys**
NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska Quadrangles. Volume I. Narrative report. (B31). [Data] 487102
- Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). 490812
- Results of elemental analyses of water and waterborne sediment samples from areas of Alaska proposed for the Chukchi Imuruk National Reserve, Selawik National Wildlife Refuge, and Cape Krusenstern National Monument. (B31; NURE reconnaissance). [Data] 472839
- Uranium hydrogeochemical and stream sediment reconnaissance of the Lime Hills and Tyonek NTMS Quadrangles, Alaska, including concentrations of forty-three additional elements. (B31). [Data] 465773
- Uranium hydrogeochemical and stream sediment reconnaissance of the Medfra and Mt. McKinley NTMS Quadrangles, Alaska, including concentrations of forty-three additional elements. (B31). [Data] 465811
- magnetic surveys**
NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Mt. Fairweather Quadrangle. (B31). [Data] 487104
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Craig Quadrangle. (B31). [Data] 479605
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Bradfield Canal Quadrangle. (B31). [Data] 479604
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Juneau Quadrangle. (B31). [Data] 479607
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Sumdum Quadrangle. (B31). [Data] 479614
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Ketchikan Quadrangle. (B31). [Data] 479608
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Petersburg Quadrangle. (B31). [Data] 479609
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Dixon Entrance Quadrangle. (B31). [Data] 479606
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Port Alexander Quadrangle. (B31). [Data] 479610
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Prince Rupert Quadrangle. (B31). [Data] 479611
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Skagway Quadrangle. (B31). [Data] 479613
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Sitka Quadrangle. (B31). [Data] 479612
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Taku River Quadrangle. (B31). [Data] 479615
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Atlin Quadrangle. (B31). [Data] 479603
- radiometric surveys**
NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Mt. Fairweather Quadrangle. (B31). [Data] 487104
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Skagway Quadrangle. (B31). [Data] 479613
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Taku River Quadrangle. (B31). [Data] 479615
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Port Alexander Quadrangle. (B31). [Data] 479610
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Petersburg Quadrangle. (B31). [Data] 479609
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Juneau Quadrangle. (B31). [Data] 479607
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Atlin Quadrangle. (B31). [Data] 479603
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Ketchikan Quadrangle. (B31). [Data] 479608

- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Prince Rupert Quadrangle. (B31). [Data] 479611
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Sumdum Quadrangle. (B31). [Data] 479614
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Craig Quadrangle. (B31). [Data] 479605
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Sitka Quadrangle. (B31). [Data] 479612
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Bradfield Canal Quadrangle. (B31). [Data] 479604
- NURE aerial gamma-ray and magnetic reconnaissance survey: southeastern area-Alaska, Dixon Entrance Quadrangle. (B31). [Data] 479606
- uranium ores**
- Helicopter-assisted radiometric survey of the Dixon Entrance Quadrangle, Alaska. (B31). [Data] 472800
- NURE aerial gamma-ray and magnetic reconnaissance survey, Chugach/Yakutat area, Alaska. Volume I. Narrative report. (B31). 469506
- Results of elemental analyses of water and waterborne sediment samples from areas of Alaska proposed for the Chukchi Imuruk National Reserve, Selawik National Wildlife Refuge, and Cape Krusenstern National Monument. (B31; NURE reconnaissance). 472839
- [Data] Uranium favorability of the Cook Inlet Basin, Alaska. (B31). 476414
- Uranium favorability of the Cook Inlet Basin, Alaska. (B31). 476470
- ALBEDO:**
- earth planet**
- On the effects of a sudden change in the albedo of the earth. (B33). 469552
- ALBEDO-NEUTRON DOSEMETERS:**
- cadmium**
- Cadmium-capture gamma-ray exposure from personnel dosimeters. (C55, E41). 491241
- calibration**
- Albedo-neutron dosimetry studies at Lawrence Livermore Laboratory. (D15, E41). [Data] 461461
- Personnel monitoring of neutrons using albedo thermal luminescent dosimeters. (E41). 488269
- Personnel neutron monitoring developments at LLL. (E41, C21, C15; Development and calibration of various types of neutron detectors and monitors). [Data] 470881
- Role of an analyzer type albedo dosimeter in routine monitoring and the current situation for the calibration technique. (E41). 488265
- dose equivalents**
- Feasibility of using albedo dosimeters in the vicinity of JINR 660 MeV proton accelerator at Dubna. (D15, C55). 466462
- performance**
- Albedo-neutron dosimetry studies at Lawrence Livermore Laboratory. (E41). 488245
- Albedo-neutron dosimetry studies at Lawrence Livermore Laboratory. (D15, E41). [Data] 461461
- personnel monitoring**
- Statistical errors of dose estimation in personnel neutron monitoring with albedo dosimeters. (E41, C55). 477333
- ALBUMEN:**
- See ALBUMINS*
- ALBUMINS:**
- See also LUCIFERIN*
- biological effects**
- Inactivation of *Neurospora crassa* conidia by singlet molecular oxygen generated by a photosensitized reaction. (C12; uv radiation). 487196
- carcinomas**
- The investigation of lactalbumin as a possible marker for human breast cancer. (C62). [Data] 487751
- diagnosis**
- Radioisotope diagnosis of lung diseases in experiment with application of new labelled albumin. (C62). 482380
- labelled compounds**
- Method of testing inflammation. (C31, C62). 482111
- labelling**
- Gallium-68 labelling of albumin and albumin microspheres. (B13, C62). 486731
- radiation chemistry**
- Oxygen implication in direct and indirect action of gamma radiation on protein solutions. (C14). 463051
- radioimmunoassay**
- Radioimmunoassay for urinary albumin. (C62; ^{125}I tracer technique). 470180
- A two-site immunoradiometric assay for the determination of α -albumin. (C45). 476656
- technetium 99**
- The mechanism of ventricle filling with radioactive marked albumen in 'normal pressure' hydrocephalus. (C62). 473431
- ALCATOR DEVICE:**
- Prevision of the plasma parameters and regimes in the Thor Tokamak. (A14). [Data] 489237
- confinement**
- Classical energy confinement in Alcator. (A14). 483342
- cyclotron harmonics**
- Submillimetre emission in Alcator tokamak. (A14). [Data] 462340
- cyclotron radiation**
- Cyclotron radiation in Alcator Tokamak. (A14). 483355
- emission spectroscopy**
- Submillimetre emission in Alcator tokamak. (A14). [Data] 462340
- energy balance**
- Energy confinement of high-density tokamaks. (A14). 489330
- gas blankets**
- Cold-plasma blankets. (A14). 485691
- ion temperature**
- Quasi-linear theory of a toroidal plasma in the slide-away regime. (A14). 489293
- operation**
- Low q operations in Alcator. (A14). 483384
- plasma diagnostics**
- Development of a high resolution, high sensitivity cylindrical crystal spectrometer for line shape diagnostics of x-rays emitted from hot plasmas. Progress report, August 1, 1977 - July 31, 1978. (A14). 471733
- ALCOHOLATES:**
- See ALCOHOLS*
- ALCOHOLS:**
- See also BUTANOLS; ETHANOL; GLYCEROL; GLYCOLS; HEXANOLS; METHANOL; PROPANOLS; PVA; 2-METHYLPROPANOL*
- chemical radiation effects**
- Method for producing bonded nonwoven fabrics using ionizing radiation. (B14; Patent). 486742
- Radiation sensitive polymeric o-nitrophenyl acetals and element. (B14; Patent). 479252
- chemical reaction yield**
- Enantiomerically pure (R)-(+)-2-phenylethanol-2-d and -1,1,2-d₃, and (S)-(+)-1-phenylethane-1-d, -1,2-d₂, -1,2,2-d₃, and -1,2,2,2-d₄. (B12). [Data] 465303
- chemical reactions**
- Intramolecular kinetic isotope effect in gas-phase proton-transfer reactions. (B12). 490420
- Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
- Static dielectric constant of solutions of water in n-alcohols at 15, 25, 35, and 45°C. (B12). 493577
- labelling**
- Chiral trialkylborane reducing agents. Preparation of l-deuterio primary alcohols of high enantiomeric purity. (B12). [Data] 486637
- Synthesis of 2-(4-methoxyphenyl)ethanol[ring-1- ^{14}C]. (B13). 462773
- photochemistry**
- Competitive processes in retardation by mercaptans of photoreduction by alcohols. (B12). 486586
- radiolysis**
- General regularities of radiation chemical transformations of bifunctional organic compounds. (B14). 479254
- Metal ion effect on radiolysis of diols, aminoalcohols, diamines. (B14). 479250
- On the effect of linear energy transfer on alcohol radiolysis mechanism. (B14). 479196
- Pressure dependence and structural effect of solvated electron spectra in branched chain and multihydric alcohols. (B14). 465463
- Radiolysis of allyl alcohol. (B14). 460603
- Study of hydrocarbon formation during radiolysis of aqueous alcoholic system. (B14). 479122
- spectral shift**
- Proton, deuterium, and tritium nuclear magnetic resonance of intramolecular hydrogen bonds. Isotope effects and the shape of the potential energy function. (B12). 460436
- ALDEHYDES:**
- See also ACETALDEHYDE; ALDOSTERONE; ARABINOSE; BENZALDEHYDE; FORMALDEHYDE; FURFURAL; GLUCOSE; GLYOXAL; MANNONE*
- chemical radiation effects**
- Investigation of kinetics of radiation hardening of phenol-formaldehyde oligomers. (B14). 479284
- chemical reaction yield**
- Evaluations of the mean values and standard errors of rate constants and their temperature coefficients. (B12). 460453
- chemical reactions**
- Chiral trialkylborane reducing agents. Preparation of l-deuterio primary alcohols of high enantiomeric purity. (B12). [Data] 486637
- Evaluations of the mean values and standard errors of rate constants and their temperature coefficients. (B12). 460453
- Intramolecular kinetic isotope effect in gas-phase proton-transfer reactions. (B12). 490420
- radiolysis**
- Use of spin traps for study of γ -radiolysis radical products of carbonyl compounds in liquid phase. (B14). 479311
- reduction**
- Solvent deuterium isotope effect on the liver alcohol dehydrogenase reaction. (B12). 490402
- spectral shift**
- Proton, deuterium, and tritium nuclear magnetic resonance of intramolecular hydrogen bonds. Isotope effects and the shape of the potential energy function. (B12). 460436
- ALDOSTERONE:**
- metabolism**
- Metabolism of aldosterone antagonists in liver disease. (C21). 469733
- radioimmunoassay**
- Direct non-chromatographic radioimmunoassay of aldosterone: validation of a commercially available kit and observations on age-related changes in concentrations in plasma. (C62; Tritium tracer technique). 470167
- Radioimmunoassay of aldosterone in the presence of spironolactone

- and its metabolites. (C45). 469864
Study of plasma aldosterone in normal pregnancy, in pre-eclamptic women and in cord plasma of newborns. (C62). 491332
- ALFVEN WAVES:**
Resistive drift-Alfven waves in sheared magnetic fields. (A14). 485674
- analytical solution**
Analytical theory of drift waves and drift Alfven waves in tokamaks. (A14). 459934
- cyclotron frequency**
Alfven resonance effects on magnetosonic modes in large tokamaks. (A14). 489218
- drift instability**
Formation of convective cells by modulational instability of drift Alfven waves. (A14). 489371
- modulation**
Formation of convective cells by modulational instability of drift Alfven waves. (A14). 489371
- particle interactions**
Nonlinear bounce resonant interaction between Alfven waves and geomagnetically trapped particles. (B33). 472881
- plasma heating**
Non-axial-symmetric Alfven waves in cylindrical, radial inhomogeneous plasmas. (A14). 464447
- resonance**
Resonance and cut-off surfaces in the ion cyclotron frequency range in toroidal geometry. (A14). 478065
- semimetals**
Instability of modulated finite amplitude Alfven wave in solid-state plasma. (A14). 492769
- tearing instability**
Transient growth in a current-carrying plasma. (A14). 478103
- trapped-particle instability**
Stabilization of the thermonuclear alfven instability in a tokamak with a high-pressure plasma. (A14). 489088
- wave propagation**
Note on obliquely propagating nonlinear Alfven wave. (A14). 464367
- ALGAE:**
See also CHLAMYDOMONAS; CHLORELLA; EUGLENA; LICHENS; SCENEDESMUS; UNICELLULAR ALGAE
- biological effects**
Biological effects of solvent extraction chemicals on aquatic organisms. (C52, C21). [Data] 469905
- population dynamics**
Analysis of populations of boring and fouling organisms in the vicinity of Oyster Creek Nuclear Generating Station. Annual progress report, September 1, 1977 - August 31, 1978. (C52, B32, E22). [Data] 487501
- radionuclide kinetics**
Plutonium sorption by the green algae *Scenedesmus obliquus* (Turpe) Kuetz. (C21; ^{238}Pu , ^{239}Pu , ^{240}Pu). [Data] 479965
- trace amounts**
Trace elements in plants measured by X-ray emission spectroscopy. (B32). 484374
- ALGEBRAIC CURRENTS:**
See also AXIAL-VECTOR CURRENTS; NEUTRAL CURRENTS; SECOND-CLASS CURRENTS; WEAK NEUTRAL CURRENTS
- feynman diagram**
Short-distance and light-cone expansions for products of currents. (A11). 463877
- ALGEBRAIC FIELD THEORY:**
causality
Causal independence of free quantum fields. (A11). 483065
- s matrix**
Algebras of observables in S-matrix approach for systems with superselection rules. (A11). 492437
- ALGORITHMS:**
Simple one-dimensional finite element algorithm with multi-dimensional capabilities. (F50). 480946
- sodium chlorides**
Constitutive models applied in the analysis of creep of rock salt. (B31, E52, B24). 487071
- ALICE CYCLOTRON:**
research programs
Alice. Progress report 1977. (E16). 473714
- ALKALI METAL COMPLEXES:**
See also CESIUM COMPLEXES; POTASSIUM COMPLEXES; RUBIDIUM COMPLEXES; SODIUM COMPLEXES
- crystal structure**
Investigation into thermolysis process and structure of double selenites of scandium and alkali metals. (B12). 490427
- focusing**
Continuous and electrophoretic ion focussing to separate and enrich metal cations. (B11). 481639
- pyrolysis**
Investigation into thermolysis process and structure of double selenites of scandium and alkali metals. (B12). 490427
- ALKALI METAL COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- chemical preparation**
Preparation and basic physico-chemical properties of alkali metal indates and thioindates. (B12). 475993
- Synthesis and certain physical properties of A'SbTe₂ (A'-Li, Na, Rb, Cs) compounds. (B12). 468790**
- Synthesis and investigation of mixed phosphitouranylates. (B13; phosphitouranylates of alkali metals). 476115**
- chemical reactions**
Interaction of alkali metal borohydrides with transition metal chlorides. (B12). 476017
- Physicochemical investigation of systems containing complex hexafluorides of rare and alkali metals. (B12). 478894**
- crystal structure**
Structure and properties of double salts of rare earths and alkali metals. (B12). 479058
- Structure and superconductivity in alkali tungsten bronzes. (B24, A17). 490692**
- electric conductivity**
Transport properties of molten mixtures of uranium alkali and alkaline earth metals halides and theirs measurement methods. (B13). 479097
- muonic atoms**
A model requiring constant negative muon Coulomb capture ratios for simple ionic crystals. (A12). 481042
- optical properties**
Behaviour of alkali halides as materials for optical components of high power lasers. (A13). 485570
- pyrolysis**
Behaviour of ammonium- and alkali metal pentachloroaurorhodiates during heating. (B12). 465383
- separation processes**
Effect of physicochemical ion properties on separation during drop priming. (B12). 478964
- solubility**
Some properties of aluminohydrides of alkali metals. (B12). 490383
- The systems of M₂B₁₂H₁₂-MCl-H₂O (M = K⁺, Rb⁺, Cs⁺) at 25 deg C. (B12). 475979**
- superconductivity**
Structure and superconductivity in alkali tungsten bronzes. (B24, A17). 490692
- ALKALI METALS:**
See also CESIUM; FRANCIUM; LITHIUM; POTASSIUM; RUBIDIUM; SODIUM
- atom-atom collisions**
Measurement and calculation of integral electronic excitation cross sections for alkali-mercury-collision systems in the energy range between 10 and 1400 eV. (A12). 483200
- atom-molecule collisions**
Electron contact during collisions between atoms and molecules. (A12). 474601
- atoms**
Spin-depolarized photoelectrons from two-photon ionization of polarized alkali atoms by linearly polarized light. (A12). 483209
- electric conductivity**
Enhancement of electrical conductivity of plasma by alkali metal additions. (A14). 492829
- extraction chromatography**
Separation of alkali and alkaline earth metals by polyethers using extraction chromatography. (B12). [Data] 484057
- hyperfine structure**
Hyperfine spectroscopy of radioactive atoms. (A12). 485463
- interatomic forces**
Simple approximations for the long-range interactions of S-state alkali atoms with rare gas and hydrogen atoms. (A12). 481044
- ion exchange chromatography**
Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ion sources**
Ion sources. (A12). 462154
- ionization**
Use of a radio-frequency resonance circuit in studies of alkali ionization in flames. (A12). 459715
- muon probes**
Muon Knight shift measurements in the alkali and alkaline earth metal series. (A13). 474724
- plasma seeding**
Enhancement of electrical conductivity of plasma by alkali metal additions. (A14). 492829
- polarization**
Spin-depolarized photoelectrons from two-photon ionization of polarized alkali atoms by linearly polarized light. (A12). 483209
- spectroscopy**
Hyperfine spectroscopy of radioactive atoms. (A12). 485463
- thermoelectric properties**
High-temperature thermoelectric power of solid and liquid alkali metals. (A13). 464141
- ALKALINE EARTH METAL COMPLEXES:**
See also BARIUM COMPLEXES; BERYLLIUM COMPLEXES; RADIUM COMPLEXES; STRONTIUM COMPLEXES
- chemical preparation**
On the capacity to the complexing of alkaline earth metal and magnesium chromates. (B12; Alkaline earth metals: Mg, Ca, Sr, Ba). 493677
- focusing**
Continuous and electrophoretic ion focussing to separate and enrich metal cations. (B11). 481639
- ALKALINE EARTH METAL COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- chemical preparation**
Synthesis and investigation of erbium-containing quaternary oxides. (B12; Erbium quaternary oxides-AErBB'O₄, where A=Pb, Cd, Mg, Ca, Sr; B=Ti, Zr, Hf, Sn; B'=Nb, Ta). 478909
- Synthesis and physicochemical investigation of alkaline earth metal tungstates. (B12; Systems: CaCl₂-Na₂WO₄-H₂O, SrCl₂-Na₂WO₄-H₂O, BaCl₂-Na₂WO₄-H₂O). 478876**
- crystal structure**
On structure of oxocomplexes of rare earths, gallium and indium. (B12). 465343
- structural chemical analysis**
Closo-dodecaborates of alkaline earth metals. (B12). 476001

ALKALINE EARTH METALS:

See also **BARIUM**; **BERYLLIUM**; **CALCIUM**; **MAGNESIUM**; **RADIUM**; **STRONTIUM**

extraction chromatography

Separation of alkali and alkaline earth metals by polyethers using extraction chromatography. (B12). [Data] 484057

ion exchange chromatography

Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263

muon probes

Muon Knight shift measurements in the alkali and alkaline earth metal series. (A13). 474724

ALKALINE PHOSPHATASE:**acute irradiation**

Ionizing radiation effects on alkaline phosphatase activity and isoenzymes in liver and blood plasma of embryos and chicks. (C14). 469672

ALKALOIDS:

See also **HYOSCYAMINE**; **MORPHINE**; **NICOTINE**; **QUININE**; **VINBLASTINE**

brain

Transfer of bromocriptine across the blood-brain barrier in man. (C21). 463231

chemical reaction yield

Synthesis of anatoxin-a via intramolecular cyclization of iminium salts. (B12). 472413

chemical reactions

Cyclopeptide alkaloids. Synthesis of the ring system and its ion affinity. (B12). 460487

uptake

Transfer of bromocriptine across the blood-brain barrier in man. (C21). 463231

ALKANES:

See also **BUTANE**; **CYCLOALKANES**; **CYCLOHEXANE**; **DODECANE**; **ETHANE**; **HEPTANE**; **HEXANE**; **METHANE**; **OCTANE**; **PARAFFIN**; **PENTANE**; **PROPANE**; **2-METHYLPROPANE**; **2,2-DIMETHYLPROPANE**

absorption spectra

Novel transient absorption bands observed in alkanes containing electron scavengers. (B14). 493790

chemical radiation effects

Study of radical-cations in liquid alkanes by the method of nanosecond pulse radiolysis. (B14). 479225

2,4,6-Tri-tert-butyl-nitrosobenzene as a spin trap and an electron and hole scavenger in a 3-methylpentane matrix. (B12, B14). [Data] 486644

chemical reaction kinetics

Temperature-dependent A factor in thermal unimolecular reactions. (B12). 460464

chemical reactions

Growth and decay properties of trapped H and D atoms produced by the photolysis of HI, DI, and HBr in 3MP-d₄ glass. Evidence for tunneling abstraction of D from C-D bonds by H¹. (B12). [Data] 465278

decomposition

Temperature-dependent A factor in thermal unimolecular reactions. (B12). 460464

electron mobility

Contribution to the measurement of electron mobilities and rate constants of electron-solute capture in liquid hydrocarbons. (B14). 484098

gas chromatography

GC single-run separation of C₁-C₁₀ hydrocarbons formed in gas phase radiolysis of n-pentane. (B14). 465469

Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

liquid column chromatography

Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

liquids

Determination of the ionisation potential of certain hydrocarbons in the liquid phase. (B14, C11). 460584

mass spectroscopy

Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

photochemistry

Multistep collisional stabilization of chemically activated alkylcyclopropanes. (B12). 472450

photoionization

Laser photodetachment of electrons from O₂ in nonpolar liquids. (B12). 476085

radiolysis

Investigation of radical products of alkane radiolysis using spin traps. (B14). 468937

Nanosecond pulse radiolysis study of radical cations in liquid alkanes. (B14). 472532

Paramagnetic species in irradiated organic glasses. 2. Formation and decay of tetramethylethylene radical cations and effects of some additives on free-radical yields. (B14). 465460

Pulse radiolysis of hydrocarbon glasses at 6 and 77 K. (B14; 35-MeV electrons). 460590

radioprotective substances

Comparative study of the radioprotective effects of cysteamine, WR-2721, and WR-1065 in cultured human cells. (C11; Reproductive death of cells following γ irradiation used as indicator). 476516

trapped electrons

On electron trapping in crystalline hydrocarbons. (B14). [Data] 479164

A theoretical estimation (CNDO/2 method) of thermal electrons trapping by some alkanes. (A12). 462117

ALKANOIC ACIDS:

See **CARBOXYLIC ACIDS**

ALKENES:

See also **BUTENES**; **CYCLOALKENES**; **CYCLOPENTADIENE**; **ETHYLENE**; **HEPTENES**; **PENTENES**; **PROPYLENE**

chemical radiation effects

Correlative dependences for elementary stages of radiation chemical processes. (B14). 479236

Radiation chemical transformations of crystallizable polyolefines in heterogeneous systems. (B14). 479170

chemical reactions

Kinetic isotope effects in mechanisms of thermal allylic rearrangements. (B12). 472442

electron collisions

Electron impact spectra of some mono-olefinic hydrocarbons. (A12). 474595

electron-molecule collisions

Excited electronic states of cyclohexene, 1,4-cyclohexadiene, norbornene, and norbornadiene as studied by electron-impact spectroscopy. (A12). 467200

High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817

gas chromatography

Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

hot atom chemistry

High energy halogen atom reactions activated by nuclear transformations. Progress report, February 15, 1978 - February 14, 1979. (B13). 486718

liquid column chromatography

Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

mass spectroscopy

Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

photochemistry

Multistep collisional stabilization of chemically activated alkylcyclopropanes. (B12). 472450

photolysis

Organic photochemistry with high energy (6.7 eV) photons. (A12, B14). 485529

radiolysis

Paramagnetic species in irradiated organic glasses. 2. Formation and decay of tetramethylethylene radical cations and effects of some additives on free-radical yields. (B14). 465460

Pulse radiolytic characterization of the ion-molecule-reactions of radical cations with the parent alkenes. (B14). [Data] 493794

ALKENOIC ACIDS:

See **CARBOXYLIC ACIDS**

ALKINES:

See **ALKYNES**

ALKOXY RADICALS:

See also **METHOXY RADICALS**

ALKYL RADICALS:

See also **ETHYL RADICALS**; **METHYL RADICALS**

chemical reaction kinetics

Investigation of the reactions of stable nitroxyl radical Pt. 3. (B14). [Data] 468970

ALKYLATES:

See **ALCOHOLS**

ALKYLATING AGENTS:

See also **ENDOXAN**; **NITROGEN MUSTARD**

biological effects

Assessing chemical mutagens: the risk to humans. (C11). 487172

Therapy-related leukemia. A panmyelosis. (C15, C63, C64). 487249

carcinogenesis

Hodgkin's disease terminating in oat cell carcinoma of the lung. (C15, C63; Carcinogenic side effects of chemotherapy and radiotherapy). 487240

mutagenesis

Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). 494294

radiosensitivity

Hodgkin's disease terminating in oat cell carcinoma of the lung. (C15, C63; Carcinogenic side effects of chemotherapy and radiotherapy). 487240

Therapy-related leukemia. A panmyelosis. (C15, C63, C64). 487249

ALKYLATION:**chemical radiation effects**

Synthesis of propyl- and propenylcyclohexanes fluorinated in side chain. (B14). 484105

ALKYNES:

See also **ACETYLENE**

chemical reactions

Cobalt way to dl-Estrone, a highly regiospecific functionalization of 2,3-bis(trimethylsilyl)estratrien-17-one. (B12). 472429

Coordination chemistry study of a nickel surface. The chemistry of Ni(II) with triply bonded molecules. (B12). 472432

Novel synthesis of 2-selenienylalanine. (B12). 468758

ion-molecule collisions

Internal energy effects of primary ion on the ion-molecule reactions of deuterio-acetylene. (B14). 472548

- ALLANITE:**
 fission tracks
 Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- ALLEN:**
 chemical reaction yield
 Kinetic isotope effect in the thermolysis of methylenecyclobutane. (B12). [Data] 486581
- ALLERGY:**
 diagnosis
 Papain-induced asthma: diagnosis by skin test, RAST and bronchial provocation test. (C62). [Data] 482337
 diagnostic techniques
 ³H-histamine release from human leukocytes. (C62). 494559
 food
 Recognition of food-allergic patients and their allergens by RAST technique and clinical investigation. (C62). [Data] 482457
 sensitizers
 Binding of antigen to surface Ig during in vitro hyposensitization of isolated rat mast cells. (C45). 480002
 tritium compounds
 ³H-histamine release from human leukocytes. (C62). 494559
- ALLIUM CEP:**
 chromosomal aberrations
 RBE as a function of depth in a 650 MeV He⁺⁺ beam determined for growth delay in Vicia faba and for induction of chromosome aberrations in Allium cepa. (C13). 461028
- ALLOY SYSTEMS:**
 See also *BINARY ALLOY SYSTEMS; QUATERNARY ALLOY SYSTEMS; TERNARY ALLOY SYSTEMS*
- ALLOY-A-286:**
 corrosion
 Materials screening tests for the krypton-85 storage development program. (B16, B15). [Data] 465523
 creep
 Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
 Status of the minimum-commitment method for creep-rupture applications. (B22). 493992
 resistance welding
 Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
- ALLOY-EHI 183:**
 See *STEEL-KH17N13M3T*
- ALLOY-EHI 397:**
 See *STEEL-KH17N13M3T*
- ALLOY-EHI 432:**
 See *STEEL-KH17N13M3T*
- ALLOY-EHI 702:**
 See *STEEL-N36KH7YU*
- ALLOY-EHI437B:**
 creep
 On the mechanism of creep of heat resisting alloys. (B22). 469231
 passivation
 Peculiarities of nickel-chromium alloy behaviour in molten carbonates. (B15). 465505
 rolling
 Prevention of heterogeneous graininess in hot rolled rods of the EHI437B alloy. (B21). 493866
 segregation
 Mechanism of local liquation formation in nickel alloy ingots. (B22, B21). 469152
 tensile properties
 Durability of nickel containing alloys in high-pressure hydrogen. (B22). 469325
- ALLOY-HS-25:**
 vickers hardness
 Data sheet for high temperature Vicker's hardness number, (2). (B22). 481848
- ALLOY-HT-9:**
 physical radiation effects
 In-reactor creep measurements. (B25, B22, E35). 481886
- ALLOY-IN-100:**
 corrosion
 Erosion/corrosion of turbine airfoil materials in the high-velocity effluent of a pressurized fluidized coal combustor. (B15). 486789
 erosion
 Erosion/corrosion of turbine airfoil materials in the high-velocity effluent of a pressurized fluidized coal combustor. (B15). 486789
- ALLOY-IN-643:**
 evaporation
 Thermodynamics of cobalt alloys proposed as materials for high temperature gas-cooled reactor systems. (B22, E33). 481815
 thermodynamic activity
 Thermodynamics of cobalt alloys proposed as materials for high temperature gas-cooled reactor systems. (B22, E33). 481815
 vapor pressure
 Thermodynamics of cobalt alloys proposed as materials for high temperature gas-cooled reactor systems. (B22, E33). 481815
- ALLOY-KHN67VMTYU:**
 creep
 Causes of reduced short time creep resistance in the KhN67VMTYu alloy at 700 deg C. (B22). 493919
 wires
 Effect of method for plastic working procedure on deformability of heat resisting alloys. (B21, B22). 484148
- ALLOY-KHN77TYU:**
 physical radiation effects
 Investigation of the swelling of steels and alloys irradiated in the BOR-60 reactor to 1.1×10^{23} neutron/cm² neutron fluence. (B25).
- ALLOY-KHN77TYUR:**
 See *ALLOY-EHI437B*
- ALLOY-KHN78T:**
 corrosion
 Material corrosion during thermal detoxitization of chemical wastes. (B15). 484122
 ductility
 Heat treatment effect on ductility of nickel-base alloys. (B22). 493933
 passivation
 Peculiarities of nickel-chromium alloy behaviour in molten carbonates. (B15). 465505
- ALLOY-TZM:**
 chemical reactions
 Reaction of molybdenum and molybdenum-base alloy with sintered Li₂O pellets. (B12). 484060
 creep
 Superior powder-metallurgy molybdenum die alloys for isothermal forging. (B22). [Data] 490568
 diffusion welding
 Diffusion welding of molybdenum and TZM. (B22). 460735
 ductility
 Ductility in bending of molybdenum alloys irradiated between 425 and 1000°C. (B25, A14). 487021
 hardness
 Superior powder-metallurgy molybdenum die alloys for isothermal forging. (B22). [Data] 490568
 lithium oxides
 Reaction of molybdenum and molybdenum-base alloy with sintered Li₂O pellets. (B12). 484060
 physical radiation effects
 Ductility in bending of molybdenum alloys irradiated between 425 and 1000°C. (B25, A14). 487021
 Radiation-induced shrinkage of voids in molybdenum and TZM. (B25). 472747
- ALLOY-VTZ-1:**
 See *ALLOY-VT3-1*
- ALLOY-VT1-0:**
 corrosion
 Material corrosion during thermal detoxitization of chemical wastes. (B15). 484122
 corrosion resistance
 On corrosion resistance of the VT1-0 alloy in fluoride-containing solutions of sulfuric acid production. (B15). 493829
 ductility
 Ductility of titanium alloys with different phase composition at low temperature. (B22). 469126
 electrochemical corrosion
 Corrosion and electrochemical behaviour of titanium in chloride solutions. (B15). 469009
 gas tungsten-arc welding
 Kinetics of weld metal crystallization during welding with electromagnetic stirring. (B21). 486842
- ALLOY-VT14:**
 brazing
 High temperature soldering of the VT14 titanium alloy. (B21). 465533
 corrosion
 Material corrosion during thermal detoxitization of chemical wastes. (B15). 484122
 electrochemical machining
 Study on hydration of titanium base alloys during electrochemical machining. (B21). 490544
 etching
 Titanium and stainless steel etching under conditions of combining etching processes. (B21). 469056
 plasticity
 Effect of α - ω transformation on strength of annealed VT14 titanium alloy during uniaxial dynamic tension. (B22). 469281
 sheets
 Titanium and stainless steel etching under conditions of combining etching processes. (B21). 469056
- ALLOY-VT15:**
 ductility
 Ductility of titanium alloys with different phase composition at low temperature. (B22). 469126
- ALLOY-VT16:**
 corrosion
 Thermodynamic analysis of salt corrosion of titanium alloys. (B15). 493845
 ductility
 Ductility of titanium alloys with different phase composition at low temperature. (B22). 469126
 phase transformations
 Study of β -phase decomposition in the VT16 alloy during continuous heating. (B22). 493991
 tensile properties
 Strengthening heat treatment of the VT16 alloy in vacuum. (B22). 465668
- ALLOY-VT20:**
 hydrogen additions
 The hydrogen effect on the structure and mechanical properties of the VT20 alloy. (B22). 493974
- ALLOY-VT22:**
 corrosion
 Thermodynamic analysis of salt corrosion of titanium alloys. (B15). 493845

- corrosion resistance**
Dissolution of the alloy-VT22 under the alternating current effect in phosphoric acid electrolytes. (B15). 484123
- crystal-phase transformations**
Peculiarities of β -solid solution decomposition in ($\alpha + \beta$) titanium alloy at low temperature. (B22). 476248
- ALLOY-VT3-1:**
- fatigue**
Effect of finishing treatment on the fatigue fracture character of the 1Kh17N2Sh steel and the VT3-1 titanium alloy. (B22). 469182
- fracture properties**
Fracture toughness dependence of the VT3-1 alloy on structure. (B22). 465601
- mechanical properties**
Texture of rolled rods of VT3-1 alloy. (B22). 493909
- strain hardening**
Interaction of structural metals with diamond and cubic boron nitride during surface treatment. (B21). 469070
- swaging**
Determination of the duration of heating and cooling of titanium alloy billets for swaging. (B21). 493884
- ALLOY-VT6:**
- cerium**
Thermodynamic analysis of salt corrosion of titanium alloys. (B15). 493845
- fracture properties**
Hydrogen influence on structure and mechanical properties of VT6 alloy. (B22). 490601
- friction welding**
Friction welding of titanium alloys with niobium alloys. (B21). 493869
- gas analysis**
Laser mass spectrometry investigation of hydrogen oxygen and nitrogen local distribution in steels and heat resisting alloys. (B22, B11). 469208
- strain hardening**
Use of exponential law for strengthening analysis of titanium alloys with different stability. (B22). 465639
- welded joints**
Diffusion welding with forced deformation of the VT6 titanium alloy. (B22, B21). 493966
Distribution of interstitials in the VT6 alloy joints welded by electron beam. (B21). 460676
- ALLOY-VT8:**
- mechanical tests**
Equipment for investigation into physicomaterial properties of materials by the acoustic emission method. (E17, B22). 494892
- ALLOY-VT9:**
- tensile properties**
Effect of cooling rate on structure and properties of the VT9 alloy. (B22). 469200
- ALLOY-713-LC:**
- oxidation**
Investigations on the determination of corrosion kinetics and the structure of corrosion products on high-temperature alloys under low oxygen partial pressures. (B15). 481754
- ALLOY-800:**
See INCOLOY 800
- ALLOYS:**
See also more specific entries as listed in the INIS Thesaurus.
- corrosion**
Erosion/corrosion of turbine airfoil materials in the high-velocity effluent of a pressurized fluidized coal combustor. (B15). 486789
- corrosion protection**
Advances in corrosion science and technology. Volume 6. (B15, B22; Advances in corrosion science and technology. Vol. 6). 460615
- corrosion resistance**
New hardsurfacing alloys for wear- and corrosion resistant deposits. (B22). 460727
- cracks**
Advances in corrosion science and technology. Volume 6. (B15, B22; Advances in corrosion science and technology. Vol. 6). 460615
- deformation**
Structure of deformed metals. (B22; Book). 469115
- electrodeposition**
Electrodeposition process control equipment. Final report. (B21). 486847
- electronic structure**
The electronic structure and stability of liquid metal alloys. (B22). 493987
- erosion**
Erosion/corrosion of turbine airfoil materials in the high-velocity effluent of a pressurized fluidized coal combustor. (B15). 486789
- fatigue**
Methods for estimation of material cracking resistance under long-term static loading. (E17, B22). 494887
- interatomic forces**
On characteristics of interatomic interaction forces. (B22; Ir - 0.6% V; Ir - 0.8% Mo; Ir - 0.5% W). 484183
- ion implantation**
Production of amorphous alloys by ion implantation. (A13). 477883
- lattice vibrations**
Coherent locator approach to lattice vibrations in alloys with diagonal and geometrically-scaled off-diagonal disorder. (A13). 485626
- magnetic properties**
The magnetism of dilute and concentrated alloys. Pt. 2. (A13). 492591
- melting**
Forarco I. (B21; An arc furnace built at Campinas University (UNICAMP)-Brazil). 481777
- wear**
New hardsurfacing alloys for wear- and corrosion resistant deposits. (B22). 460727
- ALLUVIAL DEPOSITS:**
- sand**
Fourier grain shape analysis: a means for correlating alluvial deposits at the Nevada Test Site. (B31, C52). 469495
- ALNICO ALLOYS:**
- electrochemical machining**
Electrochemical machining of the magnetic YuNDK-24 alloy using programmed current pulse. (B21). 493891
- hot working**
Change in substructure and texture of the high-coercive YuNDK35T5BA alloy during bending and upsetting. (B22). 462893
- magnetic properties**
Thermomagnetic treatment of the YuN14DK25BA alloy. (B22). 493982
- magnetization**
Irreversible remagnetization processes in alnico alloys in rotating fields. (B22). 476311
- phase studies**
Metastable equilibrium in the high-coercivity YuNDK35T5 alloy. (B22). 469300
- ALPHA DECAY:**
- angular correlation**
Measurement of a 4π angular pattern for α -decay of ^{12}C excited by inelastic deuteron scattering. (A34). 483884
- ionization**
Ionization by nuclear transitions. (A10). 485264
- level widths**
On the formalism of the complex energy eigenvalue in the alpha decay study. (A33). 481505
- lifetime**
Alpha decay width and the structure of the alpha particle. (A33). 460312
- neutron-deficient isotopes**
Alpha decay of neutron-deficient mercury isotopes and their daughters. (A34). 472255
- nuclear potential**
Sensitivity of alpha-decay to the real alpha-nucleus potential. (A33). [Data] 465004
- nuclear theory**
Nuclear field theory approach to alpha-decay. (A33). 478646
- ALPHA DECAY RADIOISOTOPES:**
(For specific terms, consult the Appendix.)
- plants**
Partial contributions of individual isotopes of U, Th, Ra and Rn to total alpha activity of plant aerial mass and root system. (C22). 466245
- radiation hazards**
Lung cancers induced by various inhaled alpha emitters. Evaluation of the effect of various parameters and comparison with data obtained from uranium miners. (C15). 482067
- soils**
Partial contributions of individual isotopes of U, Th, Ra and Rn to total alpha activity of plant aerial mass and root system. (C22). 466245
- ALPHA DETECTION:**
Evaluation of plutonium analysis techniques for a continuous alpha monitor. (B16, E52, E41). 472586
On-line monitor for alpha-emitting aerosols. (E41). 466840
- counting techniques**
Total α and β counting of thick samples. (E41, B11). [Data] 474110
- crystal counters**
Electrical properties and performances of natural diamond nuclear radiation detectors. (E41). 470847
- dielectric track detectors**
Jumping spark evaluation of α -radiograms taken on strippable LR-115 film. (E41). [Data] 474125
Track recording method for the detection of defect tracks caused by charge carriers. (E41). 474052
Use of the cellulose nitrate for detection of energetic multicharged ions. (E41). 492126
- semiconductor detectors**
A new solid detector of ionizing radiation. (E41). 470943
- si semiconductor detectors**
A semiconductor detector of ionizing radiation. (E41). 463735
- urine**
Adsorption of radioactive elements on alumina and its uses for determination of gross α activity in urine. (E41). 466792
- ALPHA DOSIMETRY:**
- polycarbonates**
Sensitization of alpha tracks in pc-foils by photooxidation. (E41, B14). 488258
- thermoluminescent dosimeters**
Relative efficiency of the radiothermoluminescence induced by ^{238}Pu alpha-particles in $\text{LiF:Mg, Al}_2\text{O}_3$ and $\text{CaSO}_4\text{:Dy}$. (E41). 492170
- tissue-equivalent materials**
Relative determination of W-values for alpha particles in tissue-equivalent and other gases. (C55). [Data] 473308
- ALPHA PARTICLE MODEL:**
See CLUSTER MODEL
- ALPHA PARTICLES:**
(Emitted by nuclei.)
- alpha spectra**
Reaction $^{12}\text{C}_{\text{sub}}(n,n)3\alpha$ from threshold to $E_{\text{sub}}(n)=35$ MeV. (A34). 483823

- backscattering**
Backscattering measurements of postimplantation damage profiles in silicon single crystals. (A13). 471483
- biological effects**
Transformations of C3H 10T1/2 cells by Benzo(a)pyrene and subsequent attempts at suppression of transformed foci by untransformed cells and Vitamin A. (C21; Alpha particles). 479951
- biological radiation effects**
Geometry of flattened cells on endosteal surfaces of human bone: implications for the induction of osteosarcoma and the shape of the dose-response relationship. (C21; ^{224}Ra , ^{239}Pu). 479949
Suppression of transformed foci, induced by alpha radiation of C3H 10T1/2 cells, by untransformed cells. (C21). 479950
- carcinogenesis**
Tumorigenic hazard of particulate α activity in Syrian hamster lungs. (C21; Comparison of intratracheal ^{210}Po solutions with intravenous ^{147}Pm - and ^{238}Pu -microspheres). 476603
- confinement**
Confinement and energy deposition rate of 3.52 MeV alpha particles in JAERI experimental fusion reactor and demonstration fusion reactor plasmas. (A14). 467633
Plasma flow driven by fusion-generated alpha particles. (A14). 467571
- corona discharges**
Influence of a conducting body and space charge in the gap on breakdown probability. (E43). 485157
- cosmic ray flux**
Sea-level flux determination for heavy cosmic-ray particles. (A15). [Data] 462414
- delayed radiation effects**
Alpha irradiation of the skin and the possibility of late effects. (C21, C15, C55). [Data] 461107
External alpha radiation-induced occupational basalomas. (C15). 476597
- earth magnetosphere**
Initial observations of low energy charged particles near the earth's bow shock on ISEE-1. (B33). 484406
- elastic scattering**
Alpha particle scattering in the rigid projectile approximation. (A34). 481561
Calculation of $\alpha + n + p \rightarrow \alpha + n + p$ elastic scattering using hyperspherical harmonics. (A33). 486226
- electroproduction**
Quasi-elastic knock-out of compound particles by high-energy electrons. (A33). 475762
- energy**
Range and energy functions of interest in neutron dosimetry. (A31). 481445
- energy losses**
Determination of the stopping cross-sections of N_2 , H_2 , CH_4 , C_4H_{10} and C_2H_6 using alpha particles in the range 1.3-4.2 MeV. (A32, C55). [Data] 472132
Relative determination of W-values for alpha particles in tissue-equivalent and other gases. (C55). 473308
- energy spectra**
An attempt at solving the problem of prompt alpha spectrometry in a high flux of low energy protons and its relevance to elemental analysis. (B11). [Data] 478848
- e1-transitions**
Photodisintegration of the alpha particle. (A33). 486253
- glauber theory**
Alpha particle scattering in the rigid projectile approximation. (A34). 481561
- health hazards**
Estimation of risk for lung cancer induced by inhaled alpha-emitting radionuclides at very low doses. (C21; Rats). [Data] 473068
- ion channeling**
X-ray and Rutherford backscattering yields from channeled helium ions in GaAs. (A13). [Data] 471531
- ionization**
Low pressure cloud chamber studies. (C11, C55). 463045
- kerma**
Reaction $^{12}\text{C}(\text{sub}(n,n))3\alpha$ from threshold to $E_{\text{sub}}(n)=35$ MeV. (A34). 483823
- let**
Inactivation of phage phiX 174 by accelerated ions enhanced delta-ray effect by air layer in front of the samples. (C12; α particles and neon ions). [Data] 476542
- nuclear reaction yield**
Emission of low energy charged particles following nuclear pion capture. (A34; Rates). 460360
Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200
- particle tracks**
Alpha particle tracks in polycarbonate foils. (A32, C55). 486181
Track-diameter measurements of alpha particles in diacel plastic track detector. (E41, B25). 474101
- radiation injuries**
Cell survival following multiple-track alpha particle irradiation. (C11). [Data] 481990
- range**
Calculation of α -particle ranges in multicomponent substances. (A13, F51; B_2F_{10} ; B_3F_{10} ; N_2F_{10} ; CF_4 ; P_2F_6 ; $\text{Fe}_{10}\text{Ni}_{10}\text{B}_{20}$; $\text{Fe}_{80}\text{P}_{10}\text{B}_{10}$; $\text{Si}_{12}\text{B}_{10}\text{Al}_{10}\text{N}_{20}\text{K}_{20}\text{O}_{25}$). 464133
New technique for backscattering analysis. (A32, A12). [Data] 493137
On the use of solid state nuclear track detectors for the measurement of ranges of charged particles. (E41). 474022
- Range and energy functions of interest in neutron dosimetry. (A31). 481445
- rbe**
Genetic study of bacterial chromosome damage affecting recombination after exposure to radiations with varying LET. (C14). 466128
- spectroscopic factors**
 α -particle spectroscopy in Ni and Zn. (A33). 475707
- stopping power**
New technique for backscattering analysis. (A32, A12). [Data] 493137
- structural models**
Alpha decay width and the structure of the alpha particle. (A33). 460312
- ALPHA REACTIONS:**
L-shell x-ray production cross sections due to ^1H , ^4He , and ^7Li ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520
Nuclear fragment production from 720-MeV alpha-induced reactions. (A34). 478767
Resonating group treatment of the nuclear systems: n , d , ^3H , ^3He , and $\alpha + ^{16}\text{O}$. (A33; Polarization, differential cross sections, rotational bond structure). [Data] 478654
- alpha-transfer reactions**
Strong absorption model for the $(\alpha, 2\alpha)$ reaction. (A33). 460294
- angular correlation**
Research with the EN Tandem accelerator. (A34). 483904
- angular distribution**
Inelastic scattering of 18 MeV α particles by ^{142}Ce . (A33, A34). 472138
- backscattering**
Backward glory in heavy ion scattering. (A33). 483776
- breakup reactions**
 $(\alpha, ^3\text{He})$ breakup reaction on nuclei and the neutron momentum distribution in the α particle. (A33). 478674
- capture**
The $^{56}\text{Fe}(\alpha, \gamma)^{60}\text{Ni}$ reaction cross section. (A34). 478690
E1 and E2 strength in ^{32}S and ^{34}S observed in α -capture reactions. (A34). 490196
Resonance strength of the 1175 keV resonance in $^6\text{Li}(\alpha, \gamma)^{10}\text{B}$. (A34). 472299
- cluster model**
On the interaction of incident particles with the nucleus-target cluster in the framework of the exciton model. (A33). 493277
- compound-nucleus reactions**
Charged particle spectra: 140 MeV α particle bombardment of ^{27}Al , ^{58}Ni , ^{90}Zr , ^{209}Bi , and ^{232}Th . (A34). 475857
Classical many-body calculation of relativistic nuclear collisions. (A33). 468420
g-factor of the $19/2^-$ isomer in ^{115}Sb . (A34). 475804
Production of $A = 6$ and 7 isotopes in the $\alpha + \alpha$ reaction. (A34, A15). 468489
- cross sections**
Cross sections for the $^{42}\text{Ca}(p, \gamma)^{45}\text{Sc}$, $^{42}\text{Ca}(\alpha, n)^{45}\text{Ti}$ and $^{44}\text{Ca}(p, n)^{44}\text{Sc}$ reactions. (A34). 490136
- direct reactions**
On mechanism of the (α, p) , (α, d) and (α, t) reaction on ^{27}Al , ^{59}Co and ^{197}Au nuclei. (A34). 468472
Reaction $^{27}\text{Al} + \alpha$ at $E/\text{sub } b/ < 140$ MeV: I. (A34). 486383
Reaction $^{27}\text{Al} + \alpha$ at $E/\text{sub } b/ < 140$ MeV: II. (A34). 486394
- dwba**
Method for finite range DWBA for pick-up to unbound ejectiles. (A33). 490080
- elastic scattering**
Accurate optical potentials for elastic α -particle scattering from nuclei around $A = 40$. (A33). 464969
Alpha- α elastic scattering at intermediate energies. (A34; 650 to 850 MeV, cross sections). 468549
Critical radii for alpha-particle elastic scattering. (A33). 483780
Description of quasimolecular resonances in a potential model and investigation of reaction products. (A33). [Data] 472179
Description of quasimolecular resonances in a potential model and investigation of reaction products. (A33). [Data] 472179
Energy dependence of the phenomenological α - ^{90}Zr optical potential. (A33). [Data] 465041
Excitation functions and angular distributions for inelastic ^4He scattering to the $(0^-, 6.44 \text{ MeV})$ state in ^{24}Mg . (A34; 22.3 to 23.5 MeV). [Data] 486338
Fourier-Bessel-analysis of alpha-particle scattering optical potentials and nuclear matter densities. (A33). [Data] 464988
High energy alpha scattering used to study the uniqueness and shape of the optical potential. (A33). [Data] 465071
Investigation of the deep interior of the α -nucleus interaction around $A = 40$. (A33). 483782
Natural boundary condition methods for the microscopic treatment of composite-particle scattering. (A33). 483725
Nuclear size comparison of even titanium isotopes using 140-MeV α -particle scattering. (A34). 468552
Nucleus-nucleus potential. (A33; Antisymmetrization, generator-coordinate method). 460295
Relevance of the proximity potential to light-ion scattering. (A33). 493303
Remarks on the applicability of the delta-square and chi-square functions in the optical model automatic search routines. (A33, A34). 472215
Sensitivity of alpha-decay to the real alpha-nucleus potential. (A33). 465004
Validity of refined folding model approaches for light projectile scattering. (A33). [Data] 465028

- excitation functions**
Study of the quasimolecular resonance by the $^{24}\text{Mg}(\alpha, ^{12}\text{C})^{16}\text{O}$ reaction. (A34). 465219
- fission**
The $(\alpha, \alpha'f)$ reactions on ^{232}Th and ^{238}U . (A34). 490220
 ^4He induced reactions on ^{48}Sc at $T(^4\text{He})=150$ MeV and on ^{238}U . 483860
 ^{197}Au , ^{120}Sn and ^{67}Zn at $T(^4\text{He})=140$ MeV. (A34). 483860
Inhibition of the fission decay channel of the isoscalar giant quadrupole resonance in the actinide region. (A34). 486475
Symmetric fission of ^{24}Mg induced by inelastic scattering of 120 MeV α -particles. (A34). 490256
- gamma spectra**
Description of gamma-ray spectra following (α, xn) -reactions. (A33). 490077
- generator-coordinate method**
Antisymmetrization effects in alpha-nucleus scattering. (A33). 483774
- gev range 10-100**
Methodic problems of determination of cross sections in inelastic interactions of relativistic nuclei. (A34). 493330
- group theory**
Application of group theory to composite nuclear particle interactions. (A33). 483769
- heavy ion fusion reactions**
A calculation of γ -ray spectra following α -induced fusion reactions. (A33). 460298
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- helium 4 target**
TDHF calculations for nuclear collisions: model studies of alpha-alpha scattering. (A32). 468242
- impulse approximation**
DWIA calculation of the $^{16}\text{O}(\alpha, 2\alpha)$ reaction. (A33). 483768
- inclusive interactions**
Classical many-body calculation of relativistic nuclear collisions. (A33). 468420
Fragmentation of relativistic light nuclei: longitudinal and transverse momentum distributions. (A22, A34; 0.93 to 2.88 GeV/c, cross sections, limiting fragmentation). 468152
Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187
- inelastic scattering**
The $(\alpha, \alpha'f)$ reactions on ^{232}Th and ^{238}U . (A34). 490220
Coulomb excitation studies of ^{115}Sn . (A34; Angular distributions, E2 and M1 transitions, branching ratio 9.4 to 10.6 MeV, sigma, pi, mixing ratio lifetime). 460330
Decay modes of the isoscalar giant quadrupole resonance in ^{58}Ni . (A34). 490140
Excitation functions and angular distributions for inelastic ^4He scattering to the $(0^+, 6.44$ MeV) state in ^{24}Mg . (A34; 22.3 to 23.5 MeV). [Data] 486338
Inelastic α -particle scattering at intermediate energy. (A33). 478603
Inhibition of the fission decay channel of the isoscalar giant quadrupole resonance in the actinide region. (A34). 486475
Isospin decomposition of nuclear multipole matrix elements from γ decay rates of mirror transitions: Test of values obtained with hadronic probes. (A33). 464958
Methodic problems of determination of cross sections in inelastic interactions of relativistic nuclei. (A34). 493330
Nuclear size comparison of even titanium isotopes using 140-MeV α -particle scattering. (A34). 468552
The orthogonality condition model applied to the inelastic two-step reaction process. (A33). 483767
Single and mutual excitation of projectile and target in α -scattering. (A34). 460340
Spin-parity combinations in ^{40}Ar . (A34). 490141
A study of the excitation of the ground state band and gamma band in ^{24}Mg by inelastic α -scattering at 120 MeV. (A34). 490132
Study of the first excited state in ^4He via the $^{12}\text{C}(\alpha, \alpha')^{12}\text{C}$ reaction. (A34). 490244
Symmetric fission of ^{24}Mg induced by inelastic scattering of 120 MeV α -particles. (A34). 490256
- intermediate resonance**
Are spin and parity of a two-particle resonance, occurring in a three-particle reaction, good quantum numbers. (A33). 493221
- ion scattering analysis**
Some specific features of charged-particle elastic-scattering and their usage for light element quantitative analysis. (A33, D22). 493301
- isotope production**
Experimental study of the light isotope production in alpha+alpha interactions. (A34). 475787
- knock-out reactions**
DWIA calculation of the $^{16}\text{O}(\alpha, 2\alpha)$ reaction. (A33). 483768
Quasi-free $(\alpha, 2\alpha)$ reaction induced by 140 MeV alpha particles on ^9Be , ^{12}C , ^{16}O , and ^{20}Ne targets. (A34; Cross sections, spectroscopic factors). [Data] 478782
- lithium isotopes**
Unbound Li nuclei as ejectiles in α -induced pick-up. (A34). 490231
- mev range 100-1000**
Study of the $(\alpha, 2\alpha)$ reaction at 700 MeV. (A34). 468467
- multi-nucleon transfer reaction**
On the kinematics of a multi-nucleon transfer reaction. (A33). 493216
- multiple scattering**
Back-angle production of light ions from 720-MeV α -nucleus collisions. (A34). 475852
- neutrons**
Observation of neutrons preceding the quasi-continuum γ -ray cascade in $^{158}\text{Gd}(\alpha, xn)$ reactions. (A34). 490253
- nuclear deformation**
An effect of nuclear deformation on folded potential. (A33). 462622
- nuclear emulsions**
Energy characteristics of g-particles in interactions of relativistic deuterons and α -particles with emulsion nuclei. (A22, A34). 486123
- nuclear fireballs**
Classical many-body calculation of relativistic nuclear collisions. (A33). 468420
- nuclear potential**
Accurate optical potentials for elastic α -particle scattering from nuclei around $A = 40$. (A33). 464969
Energy dependence of the phenomenological α - ^{90}Zr optical potential. (A33). [Data] 465041
Fourier-Bessel-analysis of alpha-particle scattering optical potentials and nuclear matter densities. (A33). [Data] 464988
High energy alpha scattering used to study the uniqueness and shape of the optical potential. (A33). [Data] 465071
Nuclear structure approach to the nucleon-nucleus optical model. (A33). 465068
- nuclear reaction kinetics**
Particles and gamma rays following preequilibrium and equilibrium reaction processes. (A34). [Data] 490149
Scatterings and reactions of light heavy ions. (A34). 486460
- one-nucleon transfer reactions**
 $(\alpha, ^3\text{He})$ breakup reaction on nuclei and the neutron momentum distribution in the α particle. (A33). 478674
A comparative study of proton states in 121 123 125 127 129 ^{131}I excited by (α, t) and $(^3\text{He}, d)$ reactions. (A34). 483931
- particle production**
Investigation of velocity spectra of singly charged particles from nuclear interactions at high energy. (A34). 493342
Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194
- particle-hole model**
On the interaction of incident particles with the nucleus-target cluster in the framework of the exciton model. (A33). 493277
- phase transformations**
A new mechanism for forming highly dense nuclear matter in relativistic nucleus-nucleus collisions. (A33). 478645
- pickup reactions**
Three nucleon transfer in (α, p) and $(^3\text{He}, ^4\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
- precompound-nucleus emission**
On mechanism of the (α, p) , (α, d) and (α, t) reaction on ^{27}Al , ^{59}Co and ^{197}Au nuclei. (A34). 468472
Reaction $^{27}\text{Al} + \alpha$ at E/sub b/ < 140 MeV: I. (A34). 486383
Reaction $^{27}\text{Al} + \alpha$ at E/sub b/ < 140 MeV: II. (A34). 486394
- quasi-elastic scattering**
 $(\alpha, \alpha p)$ quasifree proton knockout reaction on ^2H , ^6Li , and ^{19}F . (A34; 140 MeV). 486429
- quasi-free reactions**
Quasi-free $(\alpha, 2\alpha)$ reaction induced by 140 MeV alpha particles on ^9Be , ^{12}C , ^{16}O , and ^{20}Ne targets. (A34; Cross sections, spectroscopic factors). [Data] 478782
- resonating-group method**
A method for analytically computing the resonating-group kernel function and its application to $\alpha + ^6\text{Li}$ scattering. (A33). 472212
- rutherford scattering**
Small deviations from Rutherford scattering. (A33). 460292
- scattering**
TDHF calculations for nuclear collisions: model studies of alpha-alpha scattering. (A32). 468242
- scattering amplitudes**
Alpha scattering by heavy nuclei. (A33). 468305
- spallation**
Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
Experimental results on fragmentation of carbon nucleus by relativistic deuterons and alpha particles. (A34). 465096
- stripping**
 $^{12}\text{C}(\alpha, n)^{15}\text{O}$ and $^{16}\text{O}(\alpha, n)^{19}\text{Ne}$ reactions at E/sub α / = 40 MeV. (A34; Angular distribution, J, π , cross sections, spectroscopic factors, reaction mechanism, 40 MeV). [Data] 478759
Changing deformations and the role of the Coriolis interaction in heavy transitional nuclei as revealed by single proton transfer reactions. (A34; 35.1 and 41.2 MeV, spectroscopic factors, stripping strengths, excitation energies). 468533
Mechanism of (α, p) , (α, d) , and (α, t) reactions in ^{27}Al , ^{59}Co , and ^{197}Au . (A34). 465121
Proton states in ^{247}Bk excited by $^{246}\text{Cm}(\alpha, t)$ reaction and ^{247}Cf (electron capture) and $^{251}\text{Es}(\alpha)$ decays. (A34). 490115
Proton-neutron interaction in odd-odd indium nuclei. (A34, A22; Angular distribution, level structure, pairing-plus-quadrupole model, multiplets). 460333
Three nucleon transfer in (α, p) and $(^3\text{He}, ^4\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
1h/sub 11/2/ states in /sup 93,95/Zr. (A33). 490044
- three-nucleon transfer reaction**
High-spin yrast levels of ^{38}Ar . (A34). 483814
Lifetimes and spin-parity assignments of excited states in ^{49}Ge populated in the $^{46}\text{Zn}(\alpha, n\gamma)$ reaction. (A34). 483820
Population of $t^{3/2}(7/2)$ states in the $^{41}\text{Ca}(\alpha, p)^{44}\text{Sc}$ reaction. (A34). 483934
Population of intrinsic high spin states with the direct $^{118}\text{Sn}(\alpha, p)^{119}\text{Sb}$ reaction. (A34). 486459
Spectroscopy with the $^{45}\text{Sc}(\alpha, p)^{48}\text{Ti}$ reaction at 26 MeV. (A34). 486459

- ALPHA SOURCES:** 478700
- biological radiation effects**
- Mine radiation control efforts are waged on variety of fronts. (C54, B31, C21). 480182
- chemical preparation**
- The preparation of thin α -particle sources from solutions at low concentrations. (B13). 490431
- control**
- Radon daughter control in the Uravan Mineral Belt. (B31, C54). 465795
- fabrication**
- Radiation sources and process. (D14). 482515
- radiation doses**
- Internal microdosimetry. (C11, C55). 460991
- radiation monitoring**
- Analysis for radionuclides in SRC and coal combustion samples. Final report Nov 77-Jul 78. (B11). 486523
- Environmental monitoring report for Pantex Plant covering 1978. (B33, C22, B32, C52, C21). [Data] 487136
- Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). 490877
- Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). 490877
- Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). 479691
- Evaluation of plutonium analysis techniques for a continuous alpha monitor. (B16, E52, E41). 472586
- US Bureau of Mines radiation control research. (B31, C54). 465751
- radiation quality**
- Measurements in internal microdosimetry with a wall-less proportional counter. (C11, C55). 460973
- sample preparation**
- Electrolytic precipitation of natural uranium on stainless steel cathode. (B13, B16, D14). 462767
- ALPHA SPECTRA:**
- g codes**
- GEAL: A general program for the analysis of alpha spectra. (A34). 468485
- spectra unfolding**
- Determination of the average fwhm in background-free spectra. (E41, F51). 470967
- ALPHA SPECTROMETERS:**
- liquid scintillation detectors**
- α -ray measurement due to air luminescence employing a liquid scintillation spectrometer. (E41). 470961
- stability**
- Total stabilization of an alpha spectrometry system. (E41, B11). 466780
- surface barrier detectors**
- Low-energy alpha-particle spectrometer for study on elastic scattering. (E41). 495135
- ALPHA SPECTROMETRY:**
- See ALPHA SPECTROSCOPY
- ALPHA SPECTROSCOPY:**
- aqueous solutions**
- The operation of silicon alpha detectors in nitrate solutions. (E41). 466779
- li-drifted Si detectors**
- Alpha spectrometry by means of Li-drifted Si detectors. (B11). 486522
- sample preparation**
- Quality of the alpha spectra from evaporated sources and its dependence upon temperature effects and absorption properties. (B16, E42). 476211
- Use of ultrathin zirconium phosphate layers for the preparation of alpha-spectrometric samples. (B11). [Data] 490273
- ALPHA-TRANSFER REACTIONS:**
- alpha spectroscopy**
- On the spectroscopic amplitudes of nuclear states. (A33). 468263
- amplitudes**
- Alpha-structure amplitudes for nuclei in the lower half of the sd shell. (A33). [Data] 472148
- cluster model**
- Separation of spurious c.m. effects within the shell nucleon configuration framework in α -transfer structure studies. (A33). 478596
- configuration mixing**
- Configuration mixing effect in the α -transfer reactions. (A33). [Data] 486187
- dwba**
- A DWBA analysis of heavy ion α -transfer reactions on ^{16}O . (A34). 460326
- heavy ion reactions**
- Mechanisms of transfer reactions induced by heavy ions and specific features of their angular distributions. (A33). 493195
- pickup reactions**
- Strong absorption model for the $(\alpha, 2\alpha)$ reaction. (A33). 460294
- Unusually strong excitation of the $1.59\text{ MeV } 0^+$ state in the $^{100}\text{Mo}(d,^4\text{Li})^{96}\text{Zr}$ reaction. (A34). 483920
- semiclassical approximation**
- Semiclassical analysis of α -transfer reactions. (A33). 478634
- shell models**
- Alpha-structure amplitudes for nuclei in the lower half of the sd shell. (A33). [Data] 472148
- stripping**
- Decay of highly excited nuclei following $^{48}\text{Ti}(^{16}\text{O}, ^{12}\text{C})$ at 120 MeV. (A34). 478720
- A DWBA analysis of heavy ion α -transfer reactions on ^{16}O . (A34). 460326
- Heavy ion induced α -transfer on targets of mass 12 to 15. (A34). 462629
- High resolution study of the reactions $^{54, 56, 58}\text{Fe}(^{16}\text{O}, ^{12}\text{C})^{58, 60, 62}\text{Ni}$ and a comparison with $(^6\text{Li}, d)$ α -transfer spectroscopy. (A34). 483882
- ALPS:**
- hydrology**
- Isotope hydrology of the Mont Blanc Massif. (B32). [Data] 460884
- ALLR REACTOR:**
- reactor noise**
- Interpretation of neutron noise spectra measured in the presence of fluctuating voids. (E36). 466743
- ALTERNATORS:**
- performance**
- Applying a Compensated Pulsed Alternator to a flashlamp load for NOVA. (A14). 492739
- Balanced, parallel operation of flashlamps. (A14). 492740
- specifications**
- Demonstration of a free piston Stirling engine driven linear alternator system. Annual report. (D21; Radioisotope powered). 487799
- ALTITUDE:**
- See LEVELS
- ALUMINATES:**
- (Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- absorption spectroscopy**
- Spectroelectrochemistry in melts: applications to molten chloroaluminates. (B11, B12). 468644
- crucibles**
- Application of metal oxide refractories for melting and casting reactive metals. (B23, B21). 486961
- excitation**
- Sodium aluminate as an optical window for studies of luminescent properties of transition metals. (A13). 471502
- fluorescence**
- Sodium aluminate as an optical window for studies of luminescent properties of transition metals. (A13). 471502
- nuclear magnetic resonance**
- ^{27}Al nuclear magnetic resonance in yttrium aluminate. (A13). 477884
- ALUMINIA:**
- See ALUMINIUM OXIDES
- ALUMINIUM:**
- Corrosion of valve metals. (B15). 468991
- Influence of composition and cation stoichiometry on the volatility, electrical conductivity and thermal expansion of LaCrO_3 based oxides. (B23, A16). 479469
- Nickel and nitrogen ion irradiation induced void swelling and defect microstructures in Ni-Al, Ni-Cr and Ni-Ti solid solutions. (B25, E35; 3.5 MeV $^{58}\text{Ni}^+$, 400 keV $^{14}\text{N}^+$ and 400 keV $^{14}\text{Ni}^+$). 469452
- ablation**
- Ultrahigh-pressure laser-driven shock-wave experiments in aluminum. (B12). 486670
- absorption spectroscopy**
- Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
- activation analysis**
- Athens $1^0 \times 2^0$ NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
- Determination of trace elements in poly(methyl methacrylate) by neutron activation analysis. (B11; Neutron reactions). [Data] 478829
- Harrisburg $1^0 \times 2^0$ NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- adsorption**
- Heats of chemisorption of O_2 , H_2 , CO , CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- annihilation**
- Positron annihilation in aluminium subjected to the thermocyclic treatment. (A13). 474731
- atom transport**
- Mechanism of pulsed magnetic field effect on the atom mobility into iron and aluminium. (B22). 460730
- auger electron spectroscopy**
- Experimental and theoretical study of the angular resolved Auger emission $L_{2,3}$ of a single crystal target of aluminium excited by ion impact. (A13). 477919
- casting**
- Investigation of flow and solidification processes in continuous aluminium casting. (D24). 476879
- charged-particle transport**
- Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
- Electronic stopping cross sections of 50-300-keV He and Li ions. (A32). 478590
- Experimental study of thick-target bremsstrahlung spectrum of ^{32}P β radiation. (A32). 486169
- Flux effect on an aligned second foil due to multiple scattering of 800-MeV protons in the leading foil. (A32). [Data] 486173
- LAMPF results on μ^+ diffusion in metals. (A32, B22; Depolarization rate). [Data] 486177

- coatings**
Ion plating onto plastics. (A13). 488941
- cold working**
Cold formed wire connector. (E10). 491443
- combustion**
Combustion of niobium-aluminium, niobium-germanium systems. (B12). 486633
- compton effect**
Asymmetry in the γ -ray Compton profile of aluminium. (A32). 490027
- corrosion**
Materials screening tests for the krypton-85 storage development program. (B16, B15). [Data] 465523
- coupling**
Quasiparticle branch mixing rates in superconducting aluminum. (A17, B22). 485978
- creep**
Creep rate dependence on stress for metals with fcc lattice. (B22). 469259
- crystal defects**
Temperature dependence of positron trapping at voids in metals. (B22). 465631
- density**
Thermal expansion and density measurements of molten and solid materials at high temperatures by the gamma attenuation technique. (B22, E42). 490576
- deposition**
The interaction of silver and aluminium on gallium arsenide (001) surfaces: a study by MBE and associated techniques. (A13). 467436
- deuteron reactions**
Thick-target neutron and γ -ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- electron collisions**
Impurity scattering on the Fermi surfaces: A (more) realistic calculation. (A13, B22). 485583
- electron-positron collisions**
Detection of nitrogen impurities in aluminium by positron annihilation. (A13). 483256
- electronic structure**
Al-Al₂O₃ interface study using surface soft-x-ray absorption and photoemission spectroscopy. (B22). 481793
- electrons**
Determination of partial and total scattering cross-sections for high energy electrons in the range 1.2-3 MeV. (A32). 483719
- emission spectroscopy**
Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
- energy gap**
Evaluation of the validity of superconducting evidence for anisotropy and multiple energy gaps. (A17, B22). 475461
- energy levels**
Microscopic calculations of energy gap anisotropy. (A17, B22). 475463
- energy-level transitions**
Calculations of atomic electron affinities. (A12). 471323
- erosion**
Oscillator strengths for highly ionized atomic systems. Progress report, May 1, 1977 - April 30, 1978. (A12; Summaries of research activities at Pennsylvania State Univ.). 492526
- excitation**
An RBS technique for measurement of the erosion rate of ion implanted films. (A13). 485605
- excitation**
K X-rays of Al, Ti, Cr, Fe and Ni induced by nitrogen ions. (A12). 467157
- foils**
Mechanical properties of two-layer Al-Be foils. (B21). 476228
- friction welding**
Inertia and friction welding of type 1100 aluminum to type 316 stainless steel. (B21). 465554
- gamma dosimetry**
Polynomial form of gamma-ray buildup factor functions. (D15, A32). [Data] 491410
- gaskets**
Development of aluminum gaskets. (E16). 482626
- grain boundaries**
Grain boundary hardening in quenched, irradiated and quenched plus irradiated aluminium. (B25). 481903
- hydrogen**
Spherical solid model for muon and hydrogen in metals. (A13). 481129
- impact shock**
Rise-time measurements of shock transitions in aluminum, copper, and steel. (B22). 479378
- impurities**
Determination of impurities in aluminium metals by proton activation. (D22). 491431
- inner-shell ionization**
Evaporation of elements at high temperature as applied to neutron activation analysis of aluminum materials. (B13). 481708
- interatomic distances**
Atomic inner-shell ionization cross sections for 2-5 MeV alpha particles. (A12). 463954
- ion channeling**
Al surface relaxation using surface extended x-ray - absorption fine structure. (B22). 469120
- ion collisions**
Al K x-ray production for incident ¹⁶O ions: The influence of target thickness effects on observed target x-ray yields. (A12). 477750
- ion exchange chromatography**
Energy straggling of 3-36-MeV ¹²C ions in aluminium. (A12). 467187
- ion-atom collisions**
X-ray production and electron transfer cross sections for 0.4 to 2.2 MeV/amu N, O, and F ions on Al. (A12; Fluorescence yield, cross sections, x-ray yields). [Data] 485452
- ionization**
Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ionization**
Impact-parameter dependence of K- and L-X-rays produced in Ar-Al and Ar-Sn collisions. (A12). 488800
- ionization**
Influence of retardation on the angular distribution of radiative electron capture. (A12). 477823
- ionization**
Systematics of the average L-shell ionization probability in K-shell ionizing collisions by light ions. (A12). 477840
- ionization**
Investigation of the diffusion of impurity atoms in plasmas by laser fluorescence. (A14). 478120
- joining**
Joining by plating: optimization of occluded angle. (B21, B22). 465537
- mechanical properties**
Mechanical properties of materials in fusion reactor first-wall and blanket systems. (A14, B22). [Data] 471613
- molecular ions**
An examination of the origin of molecular orbital X-rays from atomic and molecular impact on a series of solid targets. (A13). 467380
- muon probes**
Application of μ SR to radiation damage in metals. (A13, B25). 477872
- muon probes**
Some aspects of muon diffusion in face-centred cubic metals. (A13). 474779
- muon probes**
The study of defects with positive muons in neutron-irradiated single crystals of Al and Nb. (A13, B25). 485598
- muon probes**
Spherical solid model for muon and hydrogen in metals. (A13). 481129
- neutron activation analysis**
Activation analysis of binary alloys with 14 MeV neutrons. (B11). 493519
- neutron activation analysis**
[Data] Neutron activation determination of silicon and aluminium in rocks using Cf²⁵². (B11). 490270
- neutron activation analysis**
Utilization of radioisotopic analytic methods for composition control of raw material compounds in the cement industry. (D22). [Data] 463499
- neutron reactions**
Status of ENDF/B-V neutron emission spectra induced by 14-MeV neutrons. (A34; Partial and total spectra, cross sections, graphs). [Data] 478734
- neutron transport**
Calculation of neutron transmission through boral shielding material. (A31, A32; 0.025 to 0.125 eV). 460251
- nitridation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- oxidation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- photoelectron spectroscopy**
Al-Al₂O₃ interface study using surface soft-x-ray absorption and photoemission spectroscopy. (B22). 481793
- photon emission**
Spectral investigation of excited sputtered aluminium particles and the influence of oxygen during ion irradiation. (A13). 459788
- photon transport**
Penetration of 6 MeV gamma photons through aluminium, concrete and graphite. (A32). 481458
- photon-atom collisions**
Photoelectric cross sections derived from the total absorption cross sections in the energy range 5-130 keV. (A32). [Data] 460269
- photons**
R-matrix theory of atomic and molecular processes. (A12). 477714
- photons**
Measurement of number albedo of backscattered photons. (A32). 468239
- photonuclear reactions**
High energy photoproduction of the rho and rho' vector mesons. (A22; R). 475661
- physical radiation effects**
Analytic method for calculating the time-temperature history of metal foils under pulsed irradiation and a Gaussian beam profile. (B25, E16). 487033
- physical radiation effects**
Application of μ SR to radiation damage in metals. (A13, B25). 477872
- physical radiation effects**
Application of ion channeling to radiation damage studies. (B25). 476392
- physical radiation effects**
Effects of irradiation on the normal metal of a composite superconductor: a comparison of copper and aluminum. (A14, E12). 464378
- physical radiation effects**
Electron microscopy of low energy ion damage in metals. (B25). 481908
- physical radiation effects**
Grain boundary hardening in quenched, irradiated and quenched plus irradiated aluminium. (B25). 481903
- physical radiation effects**
In-situ cyclic stress experiment at the Clinton P. Anderson Meson Physics Facility (LAMPF) for determining the effect of dislocation vibration on void growth in metals during irradiation. 476392

- (B25; Protons at LAMPF). 490724
Neutral molecule desorption from SS(304) and Al(6061) due to particle bombardments. (E16, B25). 476987
Observation of overpressurized bubbles in helium-irradiated Al films. (A13). 474734
Positron trapping defects in Pt, Al, and Al-0.1-at.% Mg following d-Be neutron irradiation. (B25, A14). 490746
Structural and phase changes in aluminium films under nitrogen and oxygen ion irradiation. (A13). 492580
The study of defects with positive muons in neutron-irradiated single crystals of Al and Nb. (A13, B25). 485598
The use of the fully dynamic rate theory to predict void growth in metals. (B25). 479542
- pion minus reactions**
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- pion plus reactions**
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- positrons**
Positron annihilation in aluminium subjected to the thermocyclic treatment. (A13). 474731
Supercell calculations of positron trapping and annihilation at vacancies in simple and transition metals. (A12, B22; Augmented plane wave calculations). [Data] 485455
Temperature dependence of positron trapping at voids in metals. (B22). 465631
- proton reactions**
Spallation of aluminum by 300 GeV protons. (A34). 475822
Thick-target neutron and γ -ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- proton-neutron interactions**
A dependence in proton-nucleus interactions at 400 GeV. (A22). 483692
- proton-proton interactions**
A dependence in proton-nucleus interactions at 400 GeV. (A22). 483692
- quantity ratio**
Use of the semi-absolute method in neutron activation analysis. (B11). 483954
- rolling**
Investigation of flow and solidification processes in continuous aluminium casting. (D24). 476879
- secondary emission**
A comparison of experimental secondary ion energy spectra of polycrystalline metals with theory. (A13). [Data] 471558
A Monte Carlo calculation of the secondary electron emission of normal metals. II. (A13, B22). 488979
- shock waves**
Ultrahigh-pressure laser-driven shock-wave experiments in aluminium. (B12). 486670
- solubility**
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
- spatial distribution**
Chemically induced charge redistribution at Al-GaAs interfaces. (B22). 465578
- sputtering**
Angular distribution of the kinetic energy re-emitted during ion bombardment. (A13). [Data] 492634
Spectral investigation of excited sputtered aluminium particles and the influence of oxygen during ion irradiation. (A13). 459788
- superconducting junctions**
Temperature dependence of the maximum d.c. Josephson current in superconducting proximity junctions. (A13). [Data] 481094
- superconductivity**
Experimental evidence for a superconducting contribution to the electrical conductivity of bulk Al at temperatures well above $T_{sub}(C)$. (A17). 464731
The structure and dynamics of the layer arising at the surface of superconducting aluminium on switching off the magnetic field $H_{sub}(c)$. Large values $H_{sub}(o)/H_{sub}(c)$. (A17). 467979
The superconductivity of disordered aluminium films. (B22). 481811
- superconductors**
Measurement of the order-parameter relaxation in superconducting Al-strips. (A17). 471958
- surface coating**
Powder metallurgy development at SRL. (B21, B23, E23). 465553
Transmission electron microscopy and electrical properties measurements of laser doped silicon and GaAs. (B21, B22). 472618
- surfaces**
Surface plasmon spectroscopy: photoelectron spectra from adsorbates on aluminium. (A13). 467452
- thermal expansion**
Thermal expansion and density measurements of molten and solid materials at high temperatures by the gamma attenuation technique. (B22, E42). 490576
- thermodynamic properties**
Quantum-statistical model for high-density matter. (B22, A11). 476302
- thermoelectricity**
Magnetothermoelectric effect in single crystal aluminium and indium at liquid helium temperatures. (B22). 460753
- tunnel effect**
Geometrical resonances in the tunneling characteristics of superconducting Al films. (B22). 472652
- welded joints**
Peculiarities of joint formation of titanium alloy with aluminium during fusion welding. (B21). 493892
- welding**
Improvements in and relating to welding. (B21). 462849
- x-ray fluorescence analysis**
Determination of impurities in magnesium and aluminium by X-ray fluorescence spectrometry. (B11). 460418
- x-ray spectroscopy**
Al surface relaxation using surface extended x-ray-absorption fine structure. (B22). 469120
- ALUMINIUM ADDITIONS:**
See also ALLOY-A-286; ALLOY-EH437B; ALLOY-KHN77TYU; STEEL-N36KHTYU; STEEL-22NIMOCR37
- ALUMINIUM ALLOYS:**
See also ALLOY-IN-100; ALLOY-KHN67VMTYU; ALLOY-VT14; ALLOY-VT15; ALLOY-VT20; ALLOY-VT22; ALLOY-VT3-1; ALLOY-VT6; ALLOY-VT9; ALLOY-713-LC; ALUMINIUM BASE ALLOYS; ASTROLOY; HEUSLER ALLOYS; INCONEL 617; INCONEL 702; INCONEL 713C; NIMONIC 80A; RENE 41; STEEL-KH18N9T; UDIMET 700; WASPALOY
- activation analysis**
Neutron activation spectrometry using fission spectrum neutrons and gamma-gamma coincidence techniques. (B11; Neutron reactions). 468681
- adsorption**
AlSb precipitate evolution during Sb implantation in Al: experiment and theory. (B21). 479347
Hydrogen absorption in ternary substituted AB₃ alloys with particular reference to La_{1-x}/sub x/Y/sub x/Ni₃ and LaNi_{3-x}/sub x/Al/sub x/ alloys. (B23). 479498
- charged-particle transport**
LAMPF results on μ^+ diffusion in metals. (A32, B22; Depolarization rate). [Data] 486177
- chemical bonds**
Electronic properties of Nb₃Ge and Nb₃Al from self-consistent pseudopotentials. II. Bonding, electronic charge distributions, and structural transformation. (B22). 481817
- composite materials**
Investigation into initial stages of boron filaments and aluminium interaction. (B22). 460746
- corrosion**
Corrosion of valve metals. (B15). 468991
- creep**
Status of the minimum-commitment method for creep-rupture applications. (B22). 493992
- critical current**
Superconducting properties of liquid-quenched Nb₃(Al,Si) and Nb₃(Al,Co). (B22). 479371
- critical field**
Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089
- crystal field**
Hyperfine-field distribution in Fe₃Si/sub 1-x/Al/sub x/ alloys and a theoretical interpretation. (B22). 481799
- crystal-phase transformations**
Deformation substructure and slip systems in directionally solidified Ni₃Al(γ') - Ni₃Nb(delta). (B22). 469119
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
Electronic properties of Nb₃Ge and Nb₃Al from self-consistent pseudopotentials. II. Bonding, electronic charge distributions, and structural transformation. (B22). 481817
Partitioning of iron to Zr₃Al during the peritectoid transformation $3Zr + Zr_3Al \rightarrow Zr_3Al$. (B22, B21, E22). 465647
- degassing**
Performance of vacuum components operating at 1×10^{-11} Torr. (E16). 476994
- diffusion**
Phase formation in a diffusion interlayer between solid and liquid metals. (B22). 465640
- dislocations**
Deformation substructure and slip systems in directionally solidified Ni₃Al(γ') - Ni₃Nb(delta). (B22). 469119
A study of diffusion in binary aluminium base alloys by means of the scanning electron microscope. (B22). [Data] 493983
- electronic structure**
AlSb as a high-energy photon detector. (E41, B22). 461867
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- eutectics**
Influence of thermocycling on strength and plasticity of γ/γ' -delta eutectic with oriented structure. (B22). 484215
- exchange interactions**
Magnetoresistivity of (La, Gd)Al₂ dilute alloys. (B22). 486870
- extrusion**
Powder metallurgy development at SRL. (B21, B23, E23). 465553
- fabrication**
Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
- fermi level**
Electronic properties of Nb₃Ge and Nb₃Al from self-consistent pseudopotentials. I. Band structure and density of states. (B22). 481837
- ferrimagnetism**
Magnetic behaviour of the intermetallic system Gd₂NiSub(17-x)AlSub(x). (A13). 471528
- friction welding**
Friction welding of ultrahigh vacuum transition between aluminium alloy and stainless steel. (B21). 472608
- hardness**
Relationship between hardness and flow stress of ordered Zr₃Al polycrystals. (B22, E22). 472678

- heat resisting alloys**
Effect of alloying on sublimation and diffusion processes in γ' -phase in nickel alloys. (B22; alloying elements: Ti, Hf, Ta, Nb, Mo). 469127
- heat treatments**
Characterization of heat treatment induced changes in Li-Na beta-alumina single crystals. (B22, B21). 490577
- hole mobility**
AlSb as a high-energy photon detector. (E41, B22). 461867
- intermetallic compounds**
Irradiation swelling of Zr_3Al . (B25). 484326
- ion channeling**
Dechanneling by dislocations in Zn-implanted Al. (B21). 479344
- ion implantation**
AlSb precipitate evolution during Sb implantation in Al: experiment and theory. (B21). 479347
- josephson effect**
Quantum interference and Josephson effect in Nb_3Al compound. (A13). 489063
- lattice parameters**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
Metastable phases in aluminium alloys with chromium, vanadium and cobalt. (B22). 493957
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
- laves phases**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- magnetic properties**
Effects of Mo on the magnetic properties of amorphous $(Fe/sub x/Mo/sub 1-x)/_{75}P_{15}B_5Al_3$. (B22). 479379
Evidence for easy axis rotation in $Dy/sub 1-x/Gd/sub x/Al_2$ alloys from nuclear hyperfine field measurements. (B22). 479370
- magnetization**
First order reorientation in $HoAl_2$. (A13). 488946
Hyperfine-field distribution in $Fe_2Si/sub 1-x/Al/sub x/$ alloys and a theoretical interpretation. (B22). 481799
- magnetoresistance**
Magnetoresistivity of $(La, Gd)Al_3$ dilute alloys. (B22). 486870
- mechanical properties**
Chemistry and heat-treatment effects on mechanical and microstructural properties of heat-treated, beta-extruded Ti-6Al-6V-2Sn. (B22). 486933
Mechanical properties of materials in fusion reactor first-wall and blanket systems. (A14, B22). [Data] 471613
A study on the effect of silicon content on mechanical properties. (B21). 469057
- microstructure**
Chemistry and heat-treatment effects on mechanical and microstructural properties of heat-treated, beta-extruded Ti-6Al-6V-2Sn. (B22). 486933
- neutron diffraction**
Magnetic scattering of neutrons by the clusters in Co-rich CoAl compounds. (A13). [Data] 471576
- order parameters**
Determination of order parameter and atomic scattering factor in FeAl from thickness fringes in electron micrographs. (A13). [Data] 474847
- order-disorder transformations**
On distribution of iron, nickel and aluminium atoms among sublattice points in ordering ternary alloys. (B22). 484279
- paramagnetism**
Magnetic behaviour of the intermetallic system $Gd_2Ni/sub 17-x/Al/sub x/$. (A13). 471528
- phase diagrams**
Isothermal section at 800 deg C for the praseodymium-nickel-aluminium ternary system in the range of 0-33.3 at % of praseodymium. (B22). 486916
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
Thermodynamics of precipitation systems. (B22, B21). 486938
- phase studies**
Characterization of heat treatment induced changes in Li-Na beta-alumina single crystals. (B22, B21). 490577
- physical radiation effects**
Effects of electron irradiation on precipitation in Ni-Al alloys. (B25, B22). 469456
Irradiation response of the ordered phase Zr_3Al . (B25, E34; Fast neutrons). 465717
Irradiation-enhanced coarsening in Ni-12.8 at. % Al. (B25, E35, A14). 487043
Nickel and nitrogen ion irradiation induced void swelling and defect microstructures in Ni-Al, Ni-Cr and Ni-Ti solid solutions. (B25; E35; 3.5 MeV $^{38}Ni^+$, 400 keV $^{14}N^+$ and 400 keV $^{14}Ni^+$). 469452
Radiation induced homogeneous precipitation in undersaturated solid-solutions. (B25). [Data] 494105
Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- positron channeling**
Study of precipitation phenomena in aluminum alloys by positron annihilation. (B21, B22). 479356
- precipitation**
Study of precipitation phenomena in aluminum alloys by positron annihilation. (B21, B22). 479356
- precipitation hardening**
Thermodynamics of precipitation systems. (B22, B21). 486938
- segregation**
Void formation and solute segregation in Ti-14.4 at. % Al. (B25). 469422
- small angle scattering**
Neutron small angle scattering from the alloy Al-Zn above the critical point. (A13). 462236
- specific heat**
Low temperature heat capacity studies on hydrogen absorbing intermetallic compounds. (B22). 486929
- stability**
Partitioning of iron to Zr_3Al during the peritectoid transformation $Zr + Zr_3Al \rightarrow Zr_7Al$. (B22, B21, E22). 465647
- stresses**
Relationship between hardness and flow stress of ordered Zr_3Al polycrystals. (B22, E22). 472678
- superconducting composites**
On critical current in layers of superconducting Nb_3Al compound alloyed with copper and zirconium. (B22). 479413
- superconductivity**
Effects of stoichiometry and neutron irradiation in superconducting A-15 compounds. (A17, B22, B25). 478387
Electronic properties of Nb_3Ge and Nb_3Al from self-consistent pseudopotentials. I. Band structure and density of states. (B22). 481837
- tensile properties**
Deformation and annealing study of nicalloy. (B22). 486879
Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
- thermodynamic properties**
Phase composition and thermodynamic properties of gadolinium-aluminium alloys. (B22). 493972
Vapor pressure and thermodynamic properties of liquid aluminium-neodymium alloys. (B12). 476073
- transition temperature**
Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089
Superconducting properties of liquid-quenched $Nb_3(Al, Si)$ and $Nb_3(Al, Co)$. (B22). 479371
Superconducting properties of A15 compounds derived from band-structure results. (B22, A17). [Data] 465607
Superconductivity of ternary alloys with A15-structure in as splat cooled conditions. (B22). 479428
- tritium**
Recovery of tritium from lithium-sintered aluminium product (SAP) and lithium-aluminium alloys. (D13, B13). [Data] 470237
- voids**
Void formation and solute segregation in Ti-14.4 at. % Al. (B25). 469422
Vooids formed in quenched and annealed NiAl. (B22). [Data] 469158
- ALUMINIUM ARSENIDES:**
physical radiation effects
Dependence of energy spectrum of levels induced by electron irradiation into $GaAs/sub 1-x/PSub x/$ and $AlSub x/Gasub 1-x/As$ on composition. (A13). 474817
- ALUMINIUM BASE ALLOYS:**
cleavage
Calculation of non-miscibility boundaries in the aluminium-barium rare earths ternary system. (B12; Rare earths: La, Ce, Pr, Nd, Sm, Gd, Ho, Er). 479079
- composite materials**
High-temperature structural stability of aluminium-boron and aluminium-silicon carbide composite materials. (B22). 493989
- corrosion resistance**
Aluminium and its alloys. Chapter V. (B15). [Data] 462802
- crystal field**
Indirect evidence for exchange modification of the conduction bands in $AlAl_2$ compounds. (B22). 490571
- desorption**
The effect of bakeout temperature on the electron and ion induced gas desorption coefficients of some technological materials. (B22, E16, A14). [Data] 490552
- diffusion**
A study of diffusion in binary aluminium base alloys by means of the scanning electron microscope. (B22). [Data] 493983
- dislocations**
Characterization of dislocation loops in neutron irradiated Al-0.1% Mg by transmission electron microscopy. (B25). 476393
- electron beam melting**
Electron beam melt-hardening of aluminium alloys. (B22). 476271
- exchange interactions**
Indirect evidence for exchange modification of the conduction bands in $AlAl_2$ compounds. (B22). 490571
- magnetic properties**
Magnetic ordering and anomalous ground state in $CeAl_2$. (B22). 479363
- microstructure**
Irradiation effects in magnesium and aluminium alloys. (B25). 484327
- molybdenum additions**
Structure and properties of Al-W, Al-Mo and Al-Nb system alloys produced from granules. (B22). 484193
- muon probes**
 μ^+ depolarization measurements of Al alloyed with 0.1 at. % Ag, Cu, Mg, Si, and Zn. (A13). 474816
 μ^+ depolarization in AlGd alloys. (A13). 474811
Trapping of positive muons by vacancies in non-stoichiometric compounds. (A13). 474744
- niobium additions**
Structure and properties of Al-W, Al-Mo and Al-Nb system alloys produced from granules. (B22). 484193

- phase diagrams**
Solid solubility and residual resistivity of scandium in aluminium. (B22). 472637
- physical radiation effects**
Channeling measurements of the trapping efficiencies of solute atoms for self-interstitial atoms in metals. (A13). 489059
Effect of semicoherent precipitation on void swelling in Al-Cu alloys. (B25, B22; Neutrons). 469413
Positron trapping defects in Pt, Al, and Al-0.1-at.% Mg following d-Be neutron irradiation. (B25, A14). 490746
- radiation effects**
Effect of operational conditions on mechanical properties of the vessel material for A-1 heavy water reactor. (B25; Al-0.7Mg-0.9Si). 487040
- radiation hardening**
Surface hardening with the aid of electron beams. (B25). 487015
- shielding materials**
Structural aluminium base alloy having excellent neutron shielding effect. (B22). 469100
- spin-lattice relaxation**
Anomalous specific heat and nuclear spin relaxation in Al-transition metal alloys. (A13). 471556
- strain hardening**
Method for determining the work hardening function to describe plasticity of metals. (B22). 469332
- tungsten additions**
Structure and properties of Al-W, Al-Mo and Al-Nb system alloys produced from granules. (B22). 484193
- vacancies**
The influence of various solute additions on the process of vacancy clustering in aluminium. (B22). [Data] 493961
Trapping of positive muons by vacancies in non-stoichiometric compounds. (A13). 474744
- welded joints**
Increase in strength of Al-Be-Mg alloy joints by heat treatment. (B21). 469053
Role of reactivity of titanium when welding to aluminium. (B21, B22). 465552
- ALUMINIUM BORIDES:**
crystal structure
Structure of some refractory transition metal metalloid glasses. (B24). 481878
- ALUMINIUM BROMIDES:**
raman spectra
Resonance Raman spectra of metal halide vapor complexes. (B12). 460514
- ALUMINIUM CHLORIDES:**
chemical reactions
Interaction of rare-earth chlorides with aluminium chlorides during rare element raw materials processing. (B12). 479002
Vapor complexes of samarium(III) and samarium(II) chlorides with aluminium(III) chloride. (B12). 465376
dissociation
Vapor complexes of samarium(III) and samarium(II) chlorides with aluminium(III) chloride. (B12). 465376
molecular structure
Molecular orbital studies of Al_2F_6 and Al_2Cl_6 using a minimal basis set. (A12). 463971
raman spectra
Resonance Raman spectra of metal halide vapor complexes. (B12). 460514
- ALUMINIUM COMPLEXES:**
chemical reaction yield
Vapor complexes of samarium(III) and samarium(II) chlorides with aluminium(III) chloride. (B12). 465376
formation heat
Thermochemical investigations of complexes of $Al(BH_4)_3 \cdot xL$ type where $L = NH_3, CH_3, NH(CH_3)_2, N(CH_3)_3$. (B12). 486620
- ALUMINIUM COMPOUNDS:**
See also ALUMINATES; ALUMINIUM ARSENIDES; ALUMINIUM BORIDES; ALUMINIUM BROMIDES; ALUMINIUM CHLORIDES; ALUMINIUM FLUORIDES; ALUMINIUM HYDRIDES; ALUMINIUM HYDROXIDES; ALUMINIUM NITRIDES; ALUMINIUM OXIDES; ALUMINIUM SILICATES; CORUNDUM; RUBY; SAPPHIRE; SPINELS; TOURMALINE
electronic structure
Self-consistent augmented-plane-wave electronic-structure calculations for the A15 compounds V_3X and Nb_3X , $X = Al, Ga, Si, Ge$, and Sn . (B22, A17). 469209
intermetallic compounds
Study of the A-15 phase in the NbAl system. (A13). 471520
luminescence
Investigation of luminescence in yttrium-aluminium garnet crystals with titanium impurity by the method of polarized luminescence. (B12). 468766
mixing heat
Mixing enthalpies of alkylaluminium compounds with some metal halides. (B12). 490416
moessbauer effect
Moessbauer spectroscopy of the $Gd(AlF_6)_3$ metallic. (A13). 471425
superconductivity
Nb-Si A15 compounds produced by liquid quenching. (E12, B22, A17). 491527
Self-consistent augmented-plane-wave electronic-structure calculations for the A15 compounds V_3X and Nb_3X , $X = Al, Ga, Si, Ge$, and Sn . (B22, A17). 469209
thermoluminescence
Capture centres in yttrium-aluminium borate crystals. (A13). 474886
- ALUMINIUM FLUORIDES:**
metallurgy
Sintering kinetics of pure and doped boron carbide. (B23). 494072
molecular structure
Molecular orbital studies of Al_2F_6 and Al_2Cl_6 using a minimal basis set. (A12). 463971
phase diagrams
Interaction of complicated fluoroaluminates of potassium, rubidium and cesium. (B12). 478875
Physicochemical investigation of ternary system containing rubidium, cesium hexafluoroaluminates and rubidium hexafluoroaluminates. (B12). 478892
phase studies
Physicochemical investigation of the K_2TiF_6 - Rb_3AlF_6 - Cs_3AlF_6 system. (B12). 478877
Physicochemical investigation of the K_2TiF_6 - Rb_3AlF_6 - Rb_3PrF_6 ternary system. (B12). 478878
- ALUMINIUM HYDRIDES:**
chemical preparation
Interaction of lithium alumohydride with transition metal halides. (B12). 475992
chemical reactions
Enantiomerically pure (R)-(+)-2-phenylethanol-2-d and -1,1,2-d₃, and (S)-(+)-1-phenylethane-1-d, -1,2-d₂, -1,2,2-d₃, and -1,2,2,2-d₄. (B12). 465303
ion implantation
Superconducting hydrides of PdAl/sub x/ and PdIn/sub x/ alloys. (B22, A17). 490581
superconductivity
Superconducting hydrides of PdAl/sub x/ and PdIn/sub x/ alloys. (B22, A17). 490581
- ALUMINIUM HYDROXIDES:**
chemisorption
Radiochemical study of the sorption of iodide and iodate on aluminium(III) hydroxide precipitate. (B12). 462725
crystal lattices
The hydrogen positions in bayerite, $Al(OH)_3$. (B23, A13). [Data] 472709
lithium chlorides
Properties of adsorbents composed of hydrous aluminum oxide, and its selective adsorption of lithium from sea water. (B13). [Data] 476134
- ALUMINIUM IONS:**
electronic structure
Multiconfiguration Hartree-Fock method for atomic energy levels and transition probabilities. (A12). [Data] 492528
emission spectra
Electron density measurement using the Stark profiles of AlXII lines. (A14). 485688
energy-level transitions
Second-order calculation and beam-foil measurement of atomic lifetimes in Ne-like Al IV. (A12). 474566
ion implantation
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
Ranges of $^{27}Al^+$ ions in nine metals measured by (p,γ) resonance broadening. (A13). [Data] 471478
lifetime
Second-order calculation and beam-foil measurement of atomic lifetimes in Ne-like Al IV. (A12). 474566
photoionization
Partial photoionization cross sections and radiative recombination rate coefficients for Li-like ions - II. (A12). [Data] 485398
stark effect
Electron density measurement using the Stark profiles of AlXII lines. (A14). 485688
- ALUMINIUM ISOTOPES:**
See also ALUMINIUM 24; ALUMINIUM 25; ALUMINIUM 26; ALUMINIUM 27; ALUMINIUM 28
copper isotopes
Neutronic calculations for graphite-thorium assemblies, 14 MeV neutron sources. (A34). [Data] 490197
radioactivation
Neutronic calculations for graphite-thorium assemblies, 14 MeV neutron sources. (A34). [Data] 490197
- ALUMINIUM NITRIDES:**
electron-molecule collisions
The K-shell cross-section for 80 keV electrons in single-crystal graphite and AlN. (A32, B11). [Data] 472130
k shell
The K-shell cross-section for 80 keV electrons in single-crystal graphite and AlN. (A32, B11). [Data] 472130
oxidation
Pressureless sintered sialons with low amounts of sintering aid. (B23, B15; $Si_2 \cdot Al_0 \cdot 93Y_0 \cdot 007O_0 \cdot 4N_{36}$ and $Si_2 \cdot Al_0 \cdot 384O_0 \cdot 4N_{31}$). 469349
sintering
Pressureless sintered sialons with low amounts of sintering aid. (B23, B15; $Si_2 \cdot Al_0 \cdot 93Y_0 \cdot 007O_0 \cdot 4N_{36}$ and $Si_2 \cdot Al_0 \cdot 384O_0 \cdot 4N_{31}$). 469349
- ALUMINIUM ORES:**
See also BAUXITE
activation analysis
Instrumental neutron activation analysis of apatite-nepheline ores. (B22). 470276
- ALUMINIUM OXIDES:**
See also CORUNDUM; RUBY; SAPPHIRE; SPINELS
Electronic properties of metals, alloys and molecules. Final report. (B22, B23, A17). 465667

- annealing**
Thermochemical coloration and annealing of spinel and magnesium oxide. (B24). 487009
- cathodoluminescence**
Defects in unirradiated α -Al₂O₃. (B24). [Data] 465704
- chemical preparation**
Method to produce small-particle oxides of metals and/or silicon. (B12). 460472
- chemical radiation effects**
Study of alumina transformation under high-energy electron flux irradiation. (B14). 484093
- chemical reactions**
Chemical reduction of refractory oxides by atomic hydrogen. (B15, A14). 460614
Phase correlations in the Al₂O₃-WO₃-WO₃ system in argon and air atmospheres. (B12). 465421
- chromium ions**
Comparative study of the Cr³⁺ luminescent properties in LiAl₂O₄ and LiGa₂O₄. (A13). 471421
- coloration**
Thermochemical coloration and annealing of spinel and magnesium oxide. (B24). 487009
- composite materials**
Composite materials and coatings. (B23, B21). 476359
Influence of gas impurities on the solid-state bonding of Nb/Al₂O₃ composites above 1200°C. (B21). 479343
- compression strength**
Parametric study of the diametral compression test for ceramics. (B23). 460782
- corrosion pickling**
Dissolution of aluminium oxide monocrystals in melts of M₂O-V₂O₅. (B12; M=Li, Na, K). 484036
- crystal defects**
Defects in unirradiated α -Al₂O₃. (B24). [Data] 465704
- crystal growth**
Investigation of growth conditions of yttrium-aluminium garnet crystals with titanium impurity. (B12). 468767
- crystal structure**
Model studies of mixed-ion beta-aluminas. (B23). 486974
Structure and thermal diffusivity of plasma-sprayed Al₂O₃. (B23, A14). 486960
- density**
Magnesium oxide enhancement of sintering of alumina. (B23). 494076
- electric conductivity**
Electrical puncture strength of alumina bodies at high temperatures. (B23). 465689
- electron spectroscopy**
Al₂O₃ samples exposed to simulated underground water have been investigated by Electron Spectroscopy for Chemical Analysis (ESCA). (B24, E52). 460803
- electron spin resonance**
Atomic Center interactions in BaO; Al₂O₃; B₂O₃ glasses containing silver. (A13). [Data] 481144
- electronic structure**
Al-Al₂O₃ interface study using surface soft-x-ray absorption and photoemission spectroscopy. (B22). 481793
- encapsulation**
Stress relief of ceramic components in high voltage assemblies. Final report. (B23). 465691
- extrusion**
Powder metallurgy development at SRL. (B21, B23, E23). 465553
- fabrication**
Development of tungsten coatings for the corrosion protection of alumina-based ceramics. (B23). 486946
Performance predictions and manufacturing concerns of burnable poison rods. (B25, B22, E24). 469418
- films**
Adsorption kinetic equation under electron bombardment. (B21). 490535
- fluorescence**
Comparative study of the Cr³⁺ luminescent properties in LiAl₂O₄ and LiGa₂O₄. (A13). 471421
- fracture properties**
Fracture toughness and hardness of neutron-irradiated ceramics. (B23, A14). 486958
Fracture toughness of alumina and silicon nitride using the Knoop indentation method. (B23). 486976
- hardness**
Fracture toughness and hardness of neutron-irradiated ceramics. (B23, A14). 486958
- ion implantation**
Association of the 6-eV optical band in sapphire with oxygen vacancies. (B25, B23). 479537
- ionic conductivity**
Ionic conductivity and Raman spectra of Na-Li, K-Li, and K-Sn β -Al₂O₃. (B22, B23). 490596
Properties of single crystal beta"-aluminas. (B23). 486948
- magneto-optical effects**
Magneto-optical rotation in a transverse field in Dy₂Al₂O₇(DAG). (B23). 494062
- magnetostriction**
Roles of the order parameters M and M/sub s/ in the magnetostriction of Dy₂Al₂O₇(DAG). (B23). 479481
- materials testing**
Evaluation of candidate magnetohydrodynamic materials for the U-02 Phase III test. (A16, B15, B23). 489672
Performance of ceramic materials in high temperature steam and hydrogen. (A14, B23). 485736
- matrix materials**
Transformation of ZrO₂ particles in a ceramic matrix. (B23). 460765
- mechanical properties**
Ceramics for applications in fusion systems. (A14, B25). 467524
- microhardness**
On the conditions of chemical reactions on condensation of metal plasma fluxes. (B21). 465530
- microstructure**
Defect microstructures in Al₂O₃ and Y₂O₃ subjected to ion irradiation. (B25, A14). 487044
- nuclear magnetic resonance**
Low temperature NMR apparatus with MOSFETs (3SK45) and Al₂O₃:Al³⁺ NMR experiments. (A13). 474920
- performance**
Improving the voltage holdoff performance of alumina insulators in vacuum through quasimetallizing. (B23). 494075
- permeability**
Hydrogen transport and solubility in non-metallic solids. (A14). 475002
- phase diagrams**
The SrO-Al₂O₃ system. (B12). 493597
- photoconductivity**
Defects in unirradiated α -Al₂O₃. (B24). [Data] 465704
- photoelectron spectroscopy**
Al-Al₂O₃ interface study using surface soft-x-ray absorption and photoemission spectroscopy. (B22). 481793
- photoluminescence**
Defects in unirradiated α -Al₂O₃. (B24). [Data] 465704
- photon emission**
Spectral investigation of excited sputtered aluminium particles and the influence of oxygen during ion irradiation. (A13). 459788
- physical properties**
Influence of composition and cation stoichiometry on the volatility, electrical conductivity and thermal expansion of LaCrO₃ based oxides. (B23, A16). 479469
- physical radiation effects**
Calculation of radiation damage in insulators for fusion reactors. (A14, B25). [Data] 485694
Defect microstructures in Al₂O₃ and Y₂O₃ subjected to ion irradiation. (B25, A14). 487044
Displacement functions for diatomic materials. (A14, B25). [Data] 464439
Effect of porosity on the mean lifetime of positrons in sintered and hot-pressed α -alumina. (B25, B23). 469425
Fission reactor irradiation of candidate ceramics. (B25, A14). 487020
An investigation of ion beam irradiation techniques for the simulation of 14 MeV neutron irradiation of ceramics at high temperatures. (B25, A14). 490743
Performance predictions and manufacturing concerns of burnable poison rods. (B25, B22, E24). 469418
Spectroscopy of surface adsorbed molecules. Progress report, May 1, 1978 - April 30, 1979. (B23, A13, B25). [Data] 460766
Strength degradation and internal strain in irradiated sialon and silicon oxynitride. (B25, A14). 487030
Thermal diffusivity of neutron-irradiated ceramics. (B25, A14). 487031
- raman spectra**
Ionic conductivity and Raman spectra of Na-Li, K-Li, and K-Sn β -Al₂O₃. (B22, B23). 490596
Properties of single crystal beta"-aluminas. (B23). 486948
- reduction**
Chemical reduction of refractory oxides by atomic hydrogen. (B13, B12, A14). 470901
- silver ions**
Atomic Center interactions in BaO; Al₂O₃; B₂O₃ glasses containing silver. (A13). [Data] 481144
- sintering**
Magnesium oxide enhancement of sintering of alumina. (B23). 494076
- sputtering**
Spectral investigation of excited sputtered aluminium particles and the influence of oxygen during ion irradiation. (A13). 459788
- stress analysis**
Stress relief of ceramic components in high voltage assemblies. Final report. (B23). 465691
- thermal conductivity**
Ceramics for applications in fusion systems. (A14, B25). 467524
- thermal diffusivity**
Structure and thermal diffusivity of plasma-sprayed Al₂O₃. (B23, A14). 486960
Thermal diffusivity of neutron-irradiated ceramics. (B25, A14). 487031
- thermal expansion**
Development of large rectangular ceramic insulators for ion accelerators for the neutral-beam program. (A14). [Data] 485792
- thermodynamic properties**
Solar furnace experiments for thermophysical properties studies of rare-earth oxide MHD materials. (B23, A16). 479480
- tunnel effect**
Spectroscopy of surface adsorbed molecules. Progress report, May 1, 1978 - April 30, 1979. (B23, A13, B25). [Data] 460766
- vapor pressure**
Calculation of activities in the system K₂O - Al₂O₃ - SiO₂. (B12). 472427
- wettability**
Phase composition and wettability of aluminosilicate non-metallic inclusions with steel melts. (B22, B21). 465659
- zirconium oxides**
Transformation of ZrO₂ particles in a ceramic matrix. (B23). 460765

ALUMINIUM SILICATES:

See also *TOURMALINE*

- chemical reactions**
Interaction of alkali metal nitrates with calcium carbonate and kyanite. (B12). 468830
- luminescence**
Energy transfer in cerium-activated silicate glasses. (B25). 494166
- radiation effects**
Use of thermodesorption method and phenomenon of adsorboluminescence for study of radiation-induced defect nature in aluminosilicate catalysts. (B25, B14). 479550
- spin glass state**
Spin relaxation in the amorphous spin glass $\text{Al}_2\text{Mn}_3\text{Si}_3\text{O}_{12}$. (A13). 474848
- tracer techniques**
Na-Al silicates in washing agents. (D24, B12). 482534
- ALUMINIUM 24:**
- beta decay**
Decay of ^{24}Al and $^{24}\text{Al}_{\text{sup}}(\text{m})$ to γ -ray and α -particle emitting states in ^{24}Mg . (A34). 478735
- beta-plus decay**
Allowed β -transitions, weak magnetism and nuclear structure in light nuclei. (A33). 468274
- isomeric transitions**
Decay of ^{24}Al and $^{24}\text{Al}_{\text{sup}}(\text{m})$ to γ -ray and α -particle emitting states in ^{24}Mg . (A34). 478735

ALUMINIUM 25:

- virtual states**
Study of particle unbound states in ^{25}Mg and ^{25}Al nuclei by the reaction $^{24}\text{Mg}(\text{d}, \text{pn})$. (A34). [Data] 462628

ALUMINIUM 26:

- chemical composition**
Calcium isotopic anomalies and the lack of aluminum-26 in an unusual Allende inclusion. (A15). 481282
- coincidence spectrometry**
High-sensitivity beta-gamma and gamma-gamma spectrometry. (E41). [Data] 477337
- isotope dating**
Radioisotope clocks in archaeology. (B31). 490783
- nucleosynthesis**
Isotopic anomalies from neutron reactions during explosive carbon burning. (A15). 485899
- radioactivity**
 ^{26}Al in iron meteorites and the constancy of cosmic ray intensity in the past. (A15). 475285

ALUMINIUM 27:

- energy levels**
Measurement of cross sections for the $^{27}\text{Al}(\text{n}, \text{n}')^{27}\text{Al}$ reaction near threshold. (A34; Gamma spectra cross section ratios). [Data] 490240
- giant resonance**
Study on the various configuration role in the formation of giant dipole resonance of the 1d-2S shell nuclei. (A33). 493310
- ion implantation**
Ranges of $^{27}\text{Al}^+$ ions in nine metals measured by (p, γ) resonance broadening. (A13). [Data] 471478
- nuclear magnetic resonance**
Specific features of behaviour of the Al^{27} NMR line width in ruby. (A13). 464161
- nuclear potential**
Nuclear structure effect on the imaginary part of the optical potential in ^{27}Al , ^{121}Sb , ^{123}Sb and ^{197}Au odd nuclei. (A33). 493327

ALUMINIUM 27 REACTIONS:

- deep inelastic scattering**
Rotational-energy contributions to the kinetic energies of deep-inelastic reaction products. (A33). 486199

ALUMINIUM 27 TARGET:

- alpha reactions**
Analysis of energy and angular dependences of the cross sections for α particle elastic scattering and for the (α, p), (α, d), (α, t) reactions on ^{12}C and ^{27}Al in the l-splitting potential model. (A33). 493166
- Back-angle production of light ions from 720-MeV α -nucleus collisions. (A34). 475852
- Charged particle spectra: 140 MeV α particle bombardment of ^{27}Al , ^{58}Ni , ^{90}Zr , ^{209}Bi , and ^{232}Th . (A34). 475857
- High energy alpha scattering used to study the uniqueness and shape of the optical potential. (A33). [Data] 465071
- Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187
- Mechanism of (α, p), (α, d), and (α, t) reactions in ^{27}Al , ^{59}Co , and ^{197}Au . (A34). 465121
- Nuclear fragment production from 720-MeV alpha-induced reactions. (A34). 478767
- On mechanism of the (α, p), (α, d) and (α, t) reaction on ^{27}Al , ^{59}Co and ^{197}Au nuclei. (A34). 468472
- Reaction $^{27}\text{Al} + \alpha$ at E/sub b/ < 140 MeV: I. (A34). 486383
- Reaction $^{27}\text{Al} + \alpha$ at E/sub b/ < 140 MeV: II. (A34). 486394
- boron 10 reactions**
Nuclear absorption effects in the elastic scattering of ^{10}B and ^{11}B by ^{27}Al , ^{28}Si , and ^{30}Si . (A34). 486435
- boron 11 reactions**
Nuclear absorption effects in the elastic scattering of ^{10}B and ^{11}B by ^{27}Al , ^{28}Si , and ^{30}Si . (A34). 486435
- cross sections**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ^7Be and ^{11}C from targets with masses up to 40. (A33). 481502
- Quasi-deuteron contribution to (γ, n) reaction. (A33). 472183

deuteron reactions

- $^{27}\text{Al}(\text{d}, \text{pn})^{24}\text{Na}$ excitation function. (A34). 493470
- Charged-particle spectra: 80 MeV deuterons on ^{27}Al and ^{58}Ni and 70 MeV deuterons on ^{90}Zr , ^{209}Pb , and ^{232}Th . (A34). [Data] 465241
- Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
- High resolution studies of ($\text{d}, ^4\text{Li}$) reactions on sd-shell nuclei. (A34). 490250

electron reactions

- On the possible effect of relaxation on the quasi-elastic electron scattering in the (e, e) reaction. (A34). 493388

electron-nucleon interactions

- Comparison of inelastic electron and positron scattering cross sections on ^{12}C and ^{27}Al . (A22). 483697

fluorine 19 reactions

- The selectivity of (Si, xyz) reactions for high spins and yrast lines above the α -pinch-off. (A34). 486446

heavy ion reactions

- Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200

helium 3 reactions

- Elastic scattering of 119 MeV ^3He particles and mass number dependence of optical potential parameter. (A34). [Data] 490181
- Equilibrium and preequilibrium emission of charged particles in reactions with 50 MeV ^3He ions on ^{27}Al , ^{59}Co , ^{90}Zr , ^{112}Sn nuclei. (A34). 493382

kaon neutral reactions

- K/sub L/-nucleus total cross sections between 30 and 150 GeV: Quantitative evidence for inelastic screening. (A22). 481437
- Precise coherent K/sub S/ regeneration amplitudes for C, Al, Cu, Sn, and Pb nuclei from 20 to 140 GeV/c and their interpretation. (A22). 481438

l codes

- Production of 0.5-TW proton pulses with a spherical focusing, magnetically insulated diode. (A12). 474594

neon 20 reactions

- Analysis of continuous spectra of the reactions (^{20}Ne , ^{16}O) and (^{20}Ne , ^{12}C) in terms of multi-step direct reaction theory. (A33). 481517

- Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187

neutron reactions

- (n, p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407

- Absolute measurements of some neutron activation cross sections in ^{27}Al , ^{115}In and ^{197}Au at 14.9 MeV. (A31). [Data] 462588

- Absolute measurements of some neutron activation cross sections in ^{27}Al , ^{115}In and ^{197}Au at 14.9 MeV. (A31). [Data] 462588

- Competition of radiative transitions and proton emission at the decay of unbound states of ^{23}Na and ^{27}Al . (A34). 481574

- Measurement of cross sections for the $^{27}\text{Al}(\text{n}, \text{n}')^{27}\text{Al}$ reaction near threshold. (A34; Gamma spectra cross section ratios). [Data] 490240

- A method to measure average neutron activation cross-sections by neutron sources. (E41). 470940

nitrogen 14 reactions

- Measurements of heavy ion radiative capture cross sections. (A34). 481611

oxygen 16 reactions

- Angular correlations in compound nucleus decay following the reactions $^{16}\text{O} + ^{27}\text{Al}$, ^{40}Ca and ^{58}Ni . (A34). 468515

photonuclear reactions

- Calculation of photonucleon spectra from 1d-2S shell nuclei. (A33). 493311

- High energy photoproduction of the rho and rho' vector mesons. (A22; Cross sections, $2\pi^-$ and $4\pi^-$ states, 30 to 160 GeV). [Data] 478534

- Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ^7Be and ^{11}C from targets with masses up to 40. (A33). 481502

- Quasi-deuteron contribution to (γ, n) reaction. (A33). 472183

- Study on the $^{27}\text{Al}(\gamma, \text{p})^{26}\text{Mg}$ reaction with production of the final nucleus in different states. (A34). 493459

pion minus reactions

- Jets produced in π^- , π^+ , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127

pion plus reactions

- Jets produced in π^- , π^+ , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127

proton reactions

- Analysis of the nucleons ejected in a quasi-elastic scattering (p, p γ) at 400 MeV. (A34). 472273

- Charged-particle spectra: 90 MeV protons on ^{27}Al , ^{58}Ni , ^{90}Zr , and ^{209}Bi . (A34). 475858

- Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292

- Jets produced in π^- , π^+ , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127

- Lifetime of the 937- and 885-keV resonances in the $^{27}\text{Al}(\text{p}, \alpha)$ reaction. (A34). 486424

- On charge-exchange reactions in the region of mean energies. (A33). 478605

- Radiative capture of intermediate-energy protons to high-lying states in light nuclei. (A34). 478739

- Test of detailed balance at isolated resonances in the reactions $^{27}\text{Al} + \text{p}$ reversible $^{24}\text{Mg} + \alpha$ and time reversibility. (A34). 475797

- radioactivation**
A method to measure average neutron activation cross-sections by neutron sources. (E41). 470940
- simulation**
Production of 0.5-TW proton pulses with a spherical focusing, magnetically insulated diode. (A12). 474594
- ALUMINIUM 28:**
- excited states**
Refinement of the level scheme of the ^{28}Al nucleus. (A34). 493452
- internal conversion**
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236
- ALVEOLI (DENTAL):**
See JAW
- ALVEOLI (PULMONARY):**
See LUNGS
- AMALGAMS:**
See MERCURY ALLOYS
- AMBERLITE:**
See ORGANIC ION EXCHANGERS
- AMEBA:**
See AMOEBA
- AMENORRHEA:**
See MENSTRUATION DISORDERS
- AMERICIUM:**
- adsorption**
Laboratory studies of radionuclide distributions between selected groundwaters and geologic media. Progress report, January 1 - March 31, 1979. (E52, B32, C52). 492246
Mineral-contributed anion effects on the retention of trivalent actinides in the environment. (C52, E52, B31). [Data] 480091
Physical-chemical studies of transuranium elements. (B13). 472490
Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52). 461939
Sorption of americium on major rock-forming minerals. (C52, E52, B31). 480011
Studies of actinide sorption on selected geologic materials. (C52). [Data] 480148
Studies of actinide sorption on selected geologic materials. (E52, B31; Quartz monzonite). [Data] 480898
- biogeochemistry**
Fission- and alpha-track study of biogeochemistry of plutonium and uranium in carbonates of bikini and eniwetok atolls. Final report. (E14). 487861
- chemical properties**
The chemistry of protactinium, neptunium, americium, and curium in the nuclear fuel cycle. (B16, B13). 486814
- chromatography**
Removal of americium and curium from high-level wastes. (E51; DHDECMP; OPIX; Talspeak). 477459
- coastal waters**
Effect of a long-term release of plutonium and americium into an estuarine-coastal sea ecosystem. (C22, B32). 491058
- crystal-phase transformations**
study on phase transition in americium by high-temperature X-ray method. (B22). 484250
- differential thermal analysis**
Dilatometry and differential thermal analysis of americium metal. (B22). 469277
- dilatometry**
Dilatometry and differential thermal analysis of americium metal. (B22). 469277
- fluorescence**
Calculation of x-ray fluorescence cross sections for K and L shells. (A12; Cross sections). 467240
Precision measurement of K-shell fluorescence yields in actinide elements. (A12). [Data] 467150
- inhalation**
1976 Hanford americium accident. (C54, C21). 466352
- ion exchange chromatography**
Analytical separation of americium and curium, using high performance liquid chromatography. (B11). [Data] 493478
- isotope ratio**
Determination of content of uranium and transuranium element isotopes in spent fuel of WWER-365. (B11, E32). 465254
- metabolism**
1976 Hanford americium accident. (C54, C21). 466352
- photon collisions**
Calculation of x-ray fluorescence cross sections for K and L shells. (A12; Cross sections). 467240
- purification**
Americium recovery and purification at Rocky Flats. (B16). 476218
- quantitative chemical analysis**
Accurate coulometric determination of actinides; application and small sample weights. (B11). 468594
- radiation monitoring**
Cycling of transuranic radionuclides in the Columbia River, its estuary, and the North Pacific Ocean. Progress report, February 1, 1978 - February 15, 1979. (B32). [Data] 494220
- radiometric analysis**
Simultaneous determination of americium and curium in soil. (B11). 472351
- radionuclide migration**
Sorption and migration of radionuclides in geologic media. (E52, B31; Quartz monzonite, argillite, alluvium, and tufs). 471072
- retention**
Biogeochemistry of actinides: a nuclear fuel cycle perspective. (C54, C21, B31, B32, C52). 480174
- separation processes**
Waste management of actinide contaminated soil. (E52; Rocky Flats). 477479
- skin absorption**
1976 Hanford americium accident. (C54, C21). 466352
- solvent extraction**
Americium recovery and purification at Rocky Flats. (B16). 476218
Cleanex process: a versatile solvent extraction process for recovery and purification of lanthanides, americium, and curium. (B16). 476204
Distribution ratios and empirical equations for the extraction of elements in purex high level waste solution. (B12, B13). [Data] 460532
Radiation effects on the extraction of americium(III) with di(2-ethylhexyl) phosphoric acid. (B14, B12, D23). 484109
Removal of americium and curium from high-level wastes. (E51; DHDECMP; OPIX; Talspeak). 477459
A study of radiation effects on the extraction of americium(III) with acidic organophosphates. (B14, B12, D23). 484110
Waste management analysis for the nuclear fuel cycle. I. Actinide recovery from aqueous salt wastes. (E51). 488340
- spatial distribution**
Distribution of plutonium and americium beneath the 216-Z-1A Crib: a status report. (E52, B31). 488382
- AMERICIUM ALLOYS:**
- magnetization**
High-temperature magnetic properties of AmFe_2 ($\text{Am} = \text{Np, Pu, Am}$) Laves phases. (B22). 479358
- AMERICIUM COMPLEXES:**
- absorption spectra**
Extraction and absorption spectra of americium thiocyanate complexes in xylene. (B13). [Data] 460554
- chemical preparation**
Synthesis, composition and properties of volatile inner-complex compounds of transuranium elements. (B13). 476120
- dissociation**
Kinetic study of americium(III) and trans-1,2-diaminocyclohexanetetraacetate. (B13). 462770
- phenanthroline-ortho**
Formation of aqueous complexes of metal ions formed during the reprocessing of nuclear fuels with ortho-phenanthroline and dibutylphosphate. (B16, B13). 493855
- separation processes**
Separation of rare earth and transplutonium elements by electromigration method. (B13). 479113
- solvent extraction**
Anomalous aryl strengthening of complexes at americium and europium extraction with alkylendiphosphine dioxide from perchloric media. (B13). 479110
Extraction and absorption spectra of americium thiocyanate complexes in xylene. (B13). [Data] 460554
- synthesis**
Kinetic study of americium(III) and trans-1,2-diaminocyclohexanetetraacetate. (B13). 462770
- vapor pressure**
Vapor pressure measurements of europium(III) and americium(III) chelates of 2,2,6,6-tetramethyl-3,5-heptanedione by Knudsen method. (B12). [Data] 493552
- AMERICIUM COMPOUNDS:**
See also AMERICIUM FLUORIDES; AMERICIUM NITRATES; AMERICIUM OXIDES
- chemical preparation**
Synthesis and properties of electrochemically oxidized diphthalocyanines of rare earths and americium. (B12, B13). 493667
- coprecipitation**
Regularities of heterovalent impurity distribution between cadmium hydroxide deposit and solution. (B13). 476128
Separation of actinoids by coprecipitation with iron and zirconium hydroxides. (B13). 476127
- lattice parameters**
The crystal structure of americium(III) oxybromide. (B24). 472727
- oxidation**
Oxidation of microquantities of transplutonium elements up to tetravalent state in phosphoric acid solutions. (B13). 476138
- purification**
Contribution to the study of higher valency states of americium. (B13). 481706
- redox potential**
On the standart oxidation potential of $\text{Am}(4)-\text{Am}(3)$ pair. (B13). 479101
- reduction**
Electrochemical reduction by radiopolarography of some transplutonium aqueous ions. (B13). [Data] 460568
- solvent extraction**
Separation of trivalent actinides from lanthanides by solvent extraction. (B13, B12). [Data] 481704
- valence**
Contribution to the study of higher valency states of americium. (B13). 481706
- AMERICIUM FLUORIDES:**
- absorption spectra**
Physical-chemical studies of transuranium elements. (B13). 472490
- ionization**
Method and apparatus for providing negative ions of actinide-metal hexafluorides. (B13, D11; Patent). 468905
- AMERICIUM ISOTOPES:**
See also AMERICIUM 240; AMERICIUM 241; AMERICIUM 242; AMERICIUM 243

- Effects of orally administered 2,3-dihydroxybenzoic acid in the excretion of Am and Pu from the rat. (C21). [Data] 473093
- availability**
- Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). 479564
- environment**
- Marine ecology. (C52, B32). 461167
- health hazards**
- Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). 479564
- AMERICIUM NITRATES:**
- distribution functions**
- Effect of gamma-radiation on the extraction of europium and americium by benzyldibutylamine. (B14, B12). [Data] 484102
- AMERICIUM OXIDES:**
- transport**
- Safety analysis report for packaging type LLD-1 shipping container, supplement No. 3. (E15). 466514
- AMERICIUM 240:**
- isomeric nuclei**
- Probabilities of sup(240mf)Am and sup(242mf)Am spontaneously fissile isomer production under the action of γ quanta in the giant dipole resonance range. (A34). 493428
- AMERICIUM 241:**
- adsorption**
- Adsorption of radioactive elements on silica gel and its uses for determination of gross activity in urine. (B12, B11). [Data] 462705
- Characteristics of wastes and soils which affect transport of radionuclides through the soil and their relationship to waste management. Annual report FY78. (C52, B31, E52). [Data] 491185
- alpha decay**
- ^{237}Np Moessbauer study of the after effects of the ^{241}Am α -decay in some metallic and insulating hosts. (A13). [Data] 462191
- New electromagnetic transitions in ^{237}Np nucleus formed after the α decay of ^{241}Am . (A34). 462633
- alpha spectroscopy**
- Determination of ^{241}Am in reindeer bone. (B11, C21, C22; Results and radiochemical methods are discussed). [Data] 472388
- biological half-life**
- Effective periods of half-elimination of polonium 210 and americium 241 from the skin. (C21). 466225
- biological radiation effects**
- In vitro dose-response of macrophages to $^{239}\text{PuO}_2$ and $^{241}\text{AmO}_2$. (C21). [Data] 473089
- Toxicity of inhaled alpha-emitting radionuclides: an experimental approach. (C21; ^{239}Pu , ^{238}Pu , ^{241}Am , ^{244}Cm , and ^{242}Cm aerosols). 469777
- blood-plasma clearance**
- Biological transport of curium-243 in dairy animals. (C21; Comparison to ^{241}Am kinetics in lactating cows and goats). [Data] 479963
- body burden**
- Determination of ^{241}Am in reindeer bone. (B11, C21, C22; Results and radiochemical methods are discussed). [Data] 472388
- burnup**
- Actinide cross section data and inertial confinement fusion for long term waste disposal. (E52, A14). 474270
- chemisorption**
- Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1 - December 31, 1978. (B32, B31). [Data] 472851
- counting techniques**
- Method for the determination of ^{241}Am in urine. (B11; ^{243}Am). 478836
- cross sections**
- Measurement of the neutron-induced fission cross section of Am-241 from 100 eV to 5.3 MeV. (A34). 468509
- debye-waller factor**
- Debye-Waller factor of Am metal. (B22). 462900
- distribution**
- Patterns of dose after inhalation of monodisperse or polydisperse aerosols of $^{241}\text{AmO}_2$ by beagle dog. II. (C21). 469774
- The retention and distribution of ^{241}Am and ^{65}Zn , given as DTPA chelates in rats and of [^{14}C]DTPA in rats and beagles. (C21). 469795
- dosimetry**
- Internal dosimetry program in a plutonium facility. (C21, C54). 473058
- environment**
- Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1 - December 31, 1978. (B32, B31). [Data] 472851
- Retention of low-level radioactive waste material by soil. (C52, E52, B31). 466293
- excretion**
- Dependency of chelation efficacy upon time after first DTPA injection. (C21; Beagles, ^{241}Am , ^{237}Pu , and ^{23}Pu retention). [Data] 491031
- Disposition of americium-241 oxide following inhalation by beagles. (C21). [Data] 491017
- fission**
- Measurement of the neutron-induced fission cross section of Am-241 from 100 eV to 5.3 MeV. (A34). 468509
- gamma spectroscopy**
- Progress report, July 1975 - September 1977. (F41, B11). 474371
- ingestion**
- Ingestion of ^{241}Am sources intended for domestic smoke detectors: report of a case. (C21). 479958
- inhalation**
- Measurements of ^{241}Am in vivo at long times after inhalation. (C21). [Data] 479967
- intestinal absorption**
- Biological transport of curium-243 in dairy animals. (C21; Comparison to ^{241}Am kinetics in lactating cows and goats). [Data] 479963
- ion exchange**
- Decontamination of Hanford plutonium reclamation facility salt waste solution. (E51). 488345
- maximum permissible body burden**
- Internal dosimetry program in a plutonium facility. (C21, C54). 473058
- maximum permissible concentration**
- Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). 474265
- phagocytosis**
- Phagocytosis of $^{241}\text{AmO}_2$ by pulmonary macrophages in vitro. (C21). [Data] 473085
- photofission**
- Probabilities of sup(240mf)Am and sup(242mf)Am spontaneously fissile isomer production under the action of γ quanta in the giant dipole resonance range. (A34). 493428
- photonuclear reactions**
- Probabilities of sup(240mf)Am and sup(242mf)Am spontaneously fissile isomer production under the action of γ quanta in the giant dipole resonance range. (A34). 493428
- precipitation**
- Decontamination of Hanford plutonium reclamation facility salt waste solution. (E51). 488345
- radiation monitoring**
- Determination of ^{241}Am in reindeer bone. (B11, C21, C22; Results and radiochemical methods are discussed). [Data] 472388
- Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
- Studies on behaviour of transuranic elements in plants. (C22, C21). [Data] 473108
- radioecological concentration**
- Airborne plutonium and americium concentrations measured from the top of Rattlesnake Mountain. (B33; ^{239}Pu , ^{240}Pu , ^{241}Am). [Data] 479723
- Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
- Studies on behaviour of transuranic elements in plants. (C22, C21). [Data] 473108
- transuranic element transport in agricultural systems (soil to food chain transfer of nuclear fuel cycle radionuclides). Quarterly progress report. (C22, B31, B11). 491064**
- radiometric analysis**
- Analyses of quality control samples at EML and contractor laboratories during 1978. (B11, C22, B32, B33). [Data] 475878
- Transuranic element transport in agricultural systems (soil to food chain transfer of nuclear fuel cycle radionuclides). Quarterly progress report. (C22, B31, B11). 491064
- radionuclide kinetics**
- Interactions of transuranic wastes with soils. (C22, C21). 461118
- radionuclide migration**
- Transfer of actinides from the English Channel into the southern ^{14}N North Sea. (B32). [Data] 472856
- retention**
- Assessing the impact of nuclear-power plants on the environment. Second annual research progress report. (C21, C52). [Data] 473042
- The retention and distribution of ^{241}Am and ^{65}Zn , given as DTPA chelates in rats and of [^{14}C]DTPA in rats and beagles. (C21). 469795
- separation processes**
- Determination of ^{241}Am in reindeer bone. (B11, C21, C22; Results and radiochemical methods are discussed). [Data] 472388
- Separation of rare earth and transplutonium elements by electromigration method. (B13). 479114
- soils**
- Interactions of transuranic wastes with soils. (C22, C21). 461118
- uptake**
- The gastrointestinal absorption of plutonium and americium in the hamster. (C21). [Data] 473094
- volatility**
- Volatility investigations on some transuranium elements from titanium surfaces by thermal desorption. (B13). 486720
- AMERICIUM 241 TARGET:**
- neutron reactions**
- Evaluation and testing of actinide cross sections. (A34; Below 10 keV, differential and integral cross sections). [Data] 490126
- Measurement of ^{237}Np , ^{239}Pu and ^{241}Am / ^{239}Pu fission cross-section ratios in the 0.13-7.0 MeV neutron energy range. (A34). [Data] 486420
- Review of the microscopic cross sections for the americium isotopes in the resolved resonance region. (A34; 0.5 eV to 10 keV). [Data] 478709
- AMERICIUM 242:**
- internal conversion**
- Calculations of internal conversion coefficients accounting for nuclear deformation effect on the ground electron state. (A33). 493175
- isomeric nuclei**
- On gamma quanta resulted from a spontaneously fissioning isomer population in the $^{241}\text{Am}(n, \gamma)$ sup(242m)Am. (A34). 465233
- Probabilities of sup(240mf)Am and sup(242mf)Am spontaneously fissile isomer production under the action of γ quanta in the

- giant dipole resonance range. (A34). 493428
AMERICIUM 242 TARGET:
 neutron reactions
 Review of the microscopic cross sections for the americium isotopes in the resolved resonance region. (A34; 0.5 eV to 10 keV). [Data] 478709
AMERICIUM 243:
 adsorption
 Interaction of radionuclides with argillite from the Eleana Formation on the Nevada Test Site. (E52, B31). [Data] 492257
 alpha spectra
 A method for direct capture rate measurements in ^{232}Th , ^{238}U containing lattices. (E21). 480536
 burnup
 Actinide cross section data and inertial confinement fusion for long term waste disposal. (E52, A14). 474270
 gamma spectra
 A method for direct capture rate measurements in ^{232}Th , ^{238}U containing lattices. (E21). 480536
 internal conversion
 Calculations of internal conversion coefficients accounting for nuclear deformation effect on the ground electron state. (A33). 493175
 maximum permissible concentration
 Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). 474265
 photofission
 Probabilities of sup(240mf)Am and sup(242mf)Am spontaneously fissile isomer production under the action of γ quanta in the giant dipole resonance range. (A34). 493428
 photonuclear reactions
 Probabilities of sup(240mf)Am and sup(242mf)Am spontaneously fissile isomer production under the action of γ quanta in the giant dipole resonance range. (A34). 493428
 production
 Transuranium processing plant report of production, status, and plans for the period January 1, 1978 - September 30, 1978. (D13). 491393
AMERICIUM 243 TARGET:
 argon 40 reactions
 Manifestation of shell effects in the interaction of heavy nuclei with ions of $A > 40$. (A34). [Data] 486404
 calcium 48 reactions
 Estimation of superheavy nucleus production cross sections in total fusion reactions. (A33). 493262
 heavy ion fusion reactions
 Estimation of superheavy nucleus production cross sections in total fusion reactions. (A33). 493262
 neutron reactions
 Review of the microscopic cross sections for the americium isotopes in the resolved resonance region. (A34; 0.5 eV to 10 keV). [Data] 478709
AMES LABORATORY:
 chemical effluents
 Environmental monitoring at Ames Laboratory: Calendar Year 1978. (B33, B32, C52). 487165
 quality control
 Multilaboratory analytical quality control for the hydrogeochemical and stream sediment reconnaissance. Quality control report for September 1978. (B31). 460839
 radioactive effluents
 Environmental monitoring at Ames Laboratory: Calendar Year 1978. (B33, B32, C52). 487165
AMES LABORATORY RESEARCH REAC.:
 See ALRR REACTOR
AMETHOPTERIN:
 See METHOTREXATE
AMIDES:
 See also ACETAMIDE; ACRYLAMIDE; GLUTAMINE; IGLYCAMIC ACID; NICOTINAMIDE; PVP; SULFONAMIDES
 chemical radiation effects
 Cyclopolymerization. VI. Polymerization mechanism of N-methyl-N-allylmethacrylamide at lower temperature. (B14; Gamma radiation). [Data] 476178
 Flame resistant cotton fabrics prepared by radiation-initiated polymerization with vinyl phosphonate oligomer and N-methylolacrylamide. (B14). [Data] 486744
 Radiation curable Michael addition compounds. (B14). 493806
 chemical reaction yield
 Cyclopolymerization. VI. Polymerization mechanism of N-methyl-N-allylmethacrylamide at lower temperature. (B14; Gamma radiation). [Data] 476178
 radiolysis
 Aqueous radiation chemistry of protein and nucleic acid constituents: ESR and spin-trapping studies. (B14). [Data] 462791
 On the mechanism of radiation chemical transformation of thioacetamide aqueous solutions. (B14). 479180
 Yield and properties of solvated electrons created by hexamethylphosphorictriamide gamma radiolysis. (B14). 490487
 solubility
 Investigation into solubility in europium nitrate-benzamide-water system at 25 deg C. (B12). [Data] 493722
 Solubility in water systems: cobalt nitrate-benzamide-water at 25 deg C, cerium nitrate-benzamide-water at 25 deg C. (B12). [Data] 493633
 toxicity
 Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
AMINES:
 See also more specific entries as listed in the INIS Thesaurus.
 anisotropy
 Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
 charge density
 Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
 chemical radiation effects
 Mechanism of radiation-induced addition reaction of carbon tetrachloride onto liquid 1,2-polybutadiene accompanied by cyclization. (B14). [Data] 490496
 Radiation curable Michael addition compounds. (B14). 493806
 Study of protective action of antirads in SKN-26 up to high absorbed doses. (B14). 479151
 chemical reactions
 Oxygen transfer in the reactions of hypofluorous acid with aqueous solutions. (B12). 490328
 Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
 Synthesis of cyclopentadienyldicarbonyl(dithiocarbene)iron cations and their reactions with amines. (B12). 486634
 critical temperature
 Effect of D_2O on the lower critical solution temperature of triethylamine in water. (B12). [Data] 486605
 molecular orbital method
 Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
 photolysis
 2,4,6-Tri-tert-butylnitrosobenzene as a spin trap and an electron and hole scavenger in a 3-methylpentane matrix. (B12, B14). 486644
 radiolysis
 Electron transfer rates and equilibria between substituted phenoxide ions and phenoxyl radicals. (B14, B12). [Data] 486770
 Formation of secondary amine in the radiolysis of triaurylamine. (B15). 481745
 General regularities of radiation chemical transformations of bifunctional organic compounds. (B14). 479254
 Influence of Ni^{2+} , Cu^{2+} , Ca^{2+} ions on radiolysis of certain 1,2-bifunctional organic compounds. (B14; radiolysis of ethylene glycol, ethanolamine, ethylenediamine). 484104
 Metal ion effect on radiolysis of diols, aminoalcohols, diamines. (B14). 479250
 Radiolysis of frozen cyclohexyl amine-water solutions. (B14). 479160
 radioprotective substances
 Comparative study of the radioprotective effects of cysteamine, WR-2721, and WR-1065 in cultured human cells. (C11; Reproductive death of cells following γ irradiation used as indicator). 476516
 redox potential
 Electron transfer rates and equilibria between substituted phenoxide ions and phenoxyl radicals. (B14, B12). [Data] 486770
 solubility
 Gadolinium chloride, water and cyclohexylamine and ethylcyclohexylamine chlorides systems. (B12). 465372
 Gadolinium chloride, water and butylamine and dibutylamine chlorides systems. (B12). 465436
 High molecular weight pyridine amines as solvents for uranium(VI) and its separation from thorium. (B11, B16). 465273
 Rate phenomena in uranium extraction by amines. (B11). 472331
 solvent extraction
 Description of data on extraction of nitric acid by amine nitrates using triparameter linear equation. (B12). 476076
AMINO ACIDS:
 (For carboxylic acids only.)
 biochemical reaction kinetics
 Mechanisms for radiation damage in DNA, Progress report, November 1, 1977 - October 31, 1978. (C11; Gamma radiation). 472920
 chemical analysis
 Amino acid substitution: its use in detection and analysis of genetic variants. (C15; Neutrons, gamma radiation). 494324
 chemical reactions
 Racemization of isovaline by γ -radiation. Cosmological implications. (B14). 486738
 heparin
 Interaction of basic amino acids, polypeptides and proteins with heparin. (C11). 490917
 intestinal absorption
 Investigations on the absorption of nitrogen and amino acids in swine. 4. (C44). 476647
 labelling
 High-level production of C-11-carboxyl-labeled amino acids. (B13, C21, C62; For use in tumor and pancreatic imaging). 472497
 Nuclear Medicine Technology. Progress report for quarter ending September 30, 1978. (B13, C21, C62). 468914
 photolysis
 The formation and reaction of methyl radicals produced by direct photolysis of aqueous solutions of N-acetyl substituted aliphatic amino acids at 77 K. (C11). [Data] 476521
 radiolysis
 Aqueous radiation chemistry of protein and nucleic acid constituents: ESR and spin-trapping studies. (B14). [Data] 462791
 Corrected G-values for amino acids and their complexes. (B14). [Data] 472544
 General regularities of radiation chemical transformations of bifunctional organic compounds. (B14). 479254
 Lithium chloride glass as a neutral matrix for the EPR study of radiation damage to biomolecules. (C11). 490904
 On the radiation chemical decomposition of some amino acids in aqueous solutions. (B14). 479156

- Pulse radiolysis of m-amino benzoic acid aqueous solutions. (B14). 479190
- Radiation chemistry of amino acids, peptides and proteins in relation to the radiation sterilization of high-protein foods. (B14; 106 references). 490476
- scintillation counting**
- Factors altering optimum liquid scintillation counting of ^3H or ^{14}C amino acids. (B13). 490440
- vicia**
- Gamma-ray and EMS-induced mutations in Vicia faba L. Evaluation of yield and protein traits of mutants in the M_4 and M_5 generations. (C41). [Data] 463284
- AMINOACETIC ACID:**
See GLYCINE
- AMINOBENZENE:**
See ANILINE
- AMINOETHANETHIOL:**
See MEA
- AMINOETHYLISOTHIURONIUM BROMIDE:**
See AET
- AMINOETHYLTHIOPSEUDOURIC ACID:**
See AET
- AMINOGLUTARIC ACID-ALPHA:**
See GLUTAMIC ACID
- AMINOHYPOXANTHINE:**
See GUANINE
- AMINOISOCAPROIC ACID-ALPHA:**
See LEUCINE
- AMINOPHENYLACETIC ACID-ALPHA:**
See PHENYLALANINE
- AMINOPROPIONIC ACID-BETA:**
See ALANINE-BETA
- AMINOPTERIN:**
- biological effects**
- Changes in mammalian sperm morphology after x-ray and chemical exposures. (C14; Mice). 494307
- chromosomal aberrations**
- Connection of radiation cytogenetic injuries with normal intracellular processes. (C11, C13). 479744
- AMINOSUCCINIC ACID:**
See ASPARTIC ACID
- AMINOTOLUENES:**
See TOLUIDINES
- AMINOTRANSFERASES:**
- biological radiation effects**
- Changes in the activity of tyrosine-aminotransferase after γ -irradiation at early embryogenesis, and possible role of CAMP system in this process. (C14). 484535
- AMMONIA:**
- Periodic orbit description of tunneling in symmetric and asymmetric double-well potentials. (B12). 486638
- atom-molecule collisions**
- Scattering of thermal He beams by crossed atomic and molecular beams. IV. Spherically symmetric intermolecular potentials for $\text{He} + \text{CH}_4$, NH_3 , H_2O , SF_6 . (A12). 467313
- Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092
- chemical reaction kinetics**
- Kinetics of chlorine-ammonia reactions in seawater. Annual report, June 1, 1977 - May 31, 1978. (B12). [Data] 475973
- Some aspects of the evaluation of kinetic data. (B12). 460439
- chemical reactions**
- Production of carrier-free H^{13}CN . (B13; Patent). 468904
- Pulse radiolysis of gaseous ammonia-oxygen mixtures. (B14; Pulsed irradiation). [Data] 465477
- Reaction of silylphosphine with ammonia. (B12). 486647
- cosmochemistry**
- Observations of OH and ammonia in the direction of T Tauri stars. (A15). 464606
- double resonance methods**
- Infrared-infrared double resonance on a molecular beam of NH_3 . (A12). 477783
- ecological concentration**
- Airborne ammonia measurements in the Great Lakes Region. (C52). [Data] 480099
- interstellar space**
- Interstellar molecules. (A15). 460065
- isotopic exchange**
- Deuterium separation factors in ammonia-hydrogen exchange. (D12, B12). [Data] 466440
- microwave spectra**
- Observations of nonmetastable levels of interstellar ammonia. (A15). [Data] 464670
- molecular structure**
- Molecular beam electric deflection study of ammonia polymers. (B12, B24). 486648
- molecule collisions**
- Laser spectroscopic studies of vibration-rotation relaxation of ammonia molecule in $\text{NH}_3\text{-NH}_3$, $\text{NH}_3\text{-H}_2$, and $\text{NH}_3\text{-He}$ collisions. (A12). 471392
- molecule-molecule collisions**
- Laser spectroscopic studies of collisional relaxation processes in molecules. (A12). 467310
- polarized targets**
- Dynamic nuclear polarization in irradiated ammonia below 0.5 K. (A13). 489036
- pulsed irradiation**
- Pulse radiolysis of gaseous ammonia-oxygen mixtures. (B14; Pulsed irradiation). [Data] 465477
- radiolysis**
- Effect of isotope composition of ammonia molecule on $^{14}\text{NH}_2$ and $^{15}\text{NH}_2$ radical formation in the process of heterogeneous radiolysis. (B14). 479204
- Particularities of radiolysis mechanism in adsorbed state on acid-base catalysts. (B14). 479205
- radiowave radiation**
- Ammonia observations of the molecular cloud near S106. (A15). 492942
- solids**
- Dynamic nuclear polarization in irradiated ammonia below 0.5 K. (A13). 489036
- spectroscopy**
- Doppler-free spectroscopy of the ν_2 band in $^{14}\text{NH}_3$: Application to $^{16}\text{-}\mu\text{m}$ generation. (B11). 490275
- AMMONIUM CHLORIDES:**
- solubility**
- $(\text{NH}_4)_2\text{B}_4\text{O}_7\text{-NH}_4\text{X(X-Cl, CNS)-H}_2\text{O}$ system at 25 deg C. (B12). [Data] 493695
- AMMONIUM COMPOUNDS:**
See also ADU; AMMONIUM CHLORIDES; AMMONIUM HYDROXIDES; AMMONIUM NITRATES; AMMONIUM SULFATES; AMMONIUM URANATES
- neutron diffraction**
- Total neutron scattering cross section for molecules in the torsional ground state multiplet. (A31). 460255
- physical radiation effects**
- Electron spin resonance study of hydrogen atoms trapped in ammonium fluoroberyllate. (A13). 464196
- Formation of color centers in ammonium perchlorate by x-ray irradiation at room temperature. (B25). 472758
- quantity ratio**
- Experimental studies on the capacity of cation exchangers in the ammonium form. (B12, E32, B15). 465289
- specifications**
- Experimental studies on the capacity of cation exchangers in the ammonium form. (B12, E32, B15). 465289
- spin-lattice relaxation**
- Proton relaxation and tunnelling in some ammonium fluorides. (A13). 477945
- tunnel effect**
- Proton relaxation and tunnelling in some ammonium fluorides. (A13). 477945
- AMMONIUM DIURANATE:**
See ADU
- AMMONIUM HYDROXIDES:**
- aerosol generators**
- Generation and characterization of submicron ammonium sulfate and ammonium hydrogen sulfate aerosols. (C52, E42). 469973
- AMMONIUM NITRATES:**
- radioactive waste processing**
- Contribution to the treatment of low level radioactive waste solutions from the fabrication or refabrication of nuclear fuel containing ammonium nitrate. (E51). 492238
- Method to process the ammonium nitrate occurring in the manufacture of fuels or breeder materials for nuclear reactors. (E51). 488342
- AMMONIUM SULFATES:**
- aerosol generators**
- Generation and characterization of submicron ammonium sulfate and ammonium hydrogen sulfate aerosols. (C52, E42). 469973
- crystal structure**
- Study of the phase transition in the $(\text{NH}_4)_2\text{Cd}(\text{SO}_4)_2$. (A13). 471465
- crystals**
- Study of the phase transition in the $(\text{NH}_4)_2\text{Cd}(\text{SO}_4)_2$. (A13). 471465
- manganese ions**
- Luminescence and dynamic behaviour of the improper ferroelectric crystal $\text{CAS: Mn}^{2+}, \text{UO}_2^{2+}$. (A12). 459755
- moessbauer effect**
- Kinetic study by Moessbauer effect of the rehydration of products derived from Mohr salt. (A13). 471579
- salts**
- Kinetic study by Moessbauer effect of the rehydration of products derived from Mohr salt. (A13). 471579
- solubility**
- $\text{Ce}_2(\text{SO}_4)_3\text{-H}_2\text{SO}_4\text{-(NH}_4)_2\text{SO}_4\text{-H}_2\text{O}$ system at 20 deg C. (B12). 468698
- uranium dioxide**
- Luminescence and dynamic behaviour of the improper ferroelectric crystal $\text{CAS: Mn}^{2+}, \text{UO}_2^{2+}$. (A12). 459755
- AMMONIUM URANATES:**
See also ADU
- biological half-life**
- Solubility classification of airborne products from uranium ores and tailings piles. (C54, B13, C21; Solubility parameters are based on airborne and sieved ground dust samples). [Data] 469988
- chemical composition**
- Study of formation and composition of ammonium uranates. (B13). [Data] 468928
- chemical preparation**
- Study of formation and composition of ammonium uranates. (B13). [Data] 468928
- drying**
- Application of thermal analysis methods in the study of sintered uranium dioxide preparation. I. (B23). 481864
- microstructure**
- Characterization of ammonium polyuranate powders from a continuous precipitator. (B16, B13). 465522

- precipitation**
Characterization of ammonium polyuranate powders from a continuous precipitator. (B16, B13). 465522
- solubility**
Solubility classification of airborne products from uranium ores and tailings piles. (C54, B13, C21; Solubility parameters are based on airborne and sieved ground dust samples). [Data] 469988
- AMNION CELLS:**
See *EMBRYONIC CELLS*
- AMOEBAS:**
pathogenesis
Cooling Systems Program. (B32). 479659
- AMORPHOUS STATE:**
crystal structure
Considerations concerning the structure of thin films. (B24). 486986
Partial structure factor of amorphous Cu sub(0.57)Zr sub(0.43) alloy determined by TOF pulsed neutron diffraction. (A13). [Data] 474819
- electron diffraction**
Direct methods for the determination of atomic-scale structure of amorphous solids (X-ray, electron, and neutron scattering). (A13). 459838
- ion implantation**
TEM study of amorphous alloys produced by ion implantation. (B25, A13). 481894
- neutron diffraction**
Direct methods for the determination of atomic-scale structure of amorphous solids (X-ray, electron, and neutron scattering). (A13). 459838
- physical radiation effects**
Computer simulation of cascade developments in amorphous targets. (B25). 472791
Computer simulations for the structure, tensile deformation and radiation damage of amorphous metals. (A13). 474921
- production**
Considerations concerning the structure of thin films. (B24). 486986
- superconductivity**
Liquid-quenched amorphous superconductors. (B22, A17, B23). 472633
- x-ray diffraction**
Direct methods for the determination of atomic-scale structure of amorphous solids (X-ray, electron, and neutron scattering). (A13). 459838
- AMP:**
biological radiation effects
Cyclic adenosine monophosphate in selected rat organs following radiation insults. (C14). 463174
- lymphocytes**
Postradiation disturbances in the cAMP system of the lymphoid cells of the mouse spleen and thymus. (C14). 476565
- radiosensitivity**
Modification of radiation response of CHO cells by methyl-isobutyl xanthine. I. Reduction of D/sub o/. (C11; X irradiation of suspension cultures). [Data] 476512
Modification of radiation response of CHO cells by methyl-isobutyl xanthine. II. Increase in extrapolation number. (C11; X irradiation of suspended cultures). 476513
- spermatozoa**
The effect of theophylline and dibutyl cyclic AMP on the uptake of radioactive calcium and phosphate ions by boar and human spermatozoa. (C21). 473081
- thymus**
Postradiation disturbances in the cAMP system of the lymphoid cells of the mouse spleen and thymus. (C14). 476565
- AMPHETAMINE:**
See *BENZEDRINE*
- AMPHIBIANS:**
See also *FROGS; SALAMANDERS*
- AMPHIBOLE:**
See also *HORNBLÉNDE*
- AMPLIFIERS:**
See also *CARBON DIOXIDE LASERS; CHEMICAL LASERS; DC AMPLIFIERS; DYE LASERS; GAS LASERS; LASERS; MASERS; MICROWAVE AMPLIFIERS; NEODYMIUM LASERS; POWER AMPLIFIERS; PREAMPLIFIERS; PULSE AMPLIFIERS; SEMICONDUCTOR LASERS; SOLID STATE LASERS*
- AMPLITUDES:**
See also *DECAY AMPLITUDES; SCATTERING AMPLITUDES*
- AMYGDALIC ACID:**
See *MANDELIC ACID*
- AMYLUM:**
See *STARCH*
- ANAEROBIC DIGESTION:**
radiation effects
Effect of gamma radiation on yields of methane gas from the anaerobic bacterial digestion of sewage sludge. (B14; Gamma radiation). 481726
- ANALGESICS:**
See also *ACETYL SALICYLIC ACID; ANTIPYRINE; MORPHINE*
- ANALOG COMPUTERS:**
electro-optical effects
Introduction to optical computing applied to high energy physics experiments. (E41). 461846
- ANALOG STATES:**
See *ISOBARIC ANALOGS*
- ANALOG SYSTEMS:**
See also *REACTOR SIMULATORS*
- analog-to-digital converters**
Two-signal CAMAC ratio converter. (E42). 492215
- nuclear instrument modules**
Analog subsystem for measuring static and dynamic parameters. (E42). 470998
- ANALOG-TO-DIGITAL CONVERTERS:**
data processing
Multidimensional analysis of spectrometric data on the base of CAMAC modules. (E42). 470980
- display devices**
Multichannel analog to digital converter and readout system for the time projection chamber. (E41). 488261
- electric charges**
Nanosecond-pulse analog-to-digital converter. (E42). 495153
- ionization chambers**
Current-frequency converter. (E41). 477418
- specifications**
A multi-parameter CAMAC compatible ADC scanner. (E41). 470919
- squid devices**
Analog-to-digital conversion with a SQUID: Conditions for a countable pulse train. (E12). 491522
- ANALYSIS (ACTIVATION):**
See *ACTIVATION ANALYSIS*
- ANALYSIS (CHARGED-PARTICLE ACT):**
See *CHARGED-PARTICLE ACTIVATION ANALYSIS*
- ANALYSIS (FOURIER):**
See *FOURIER ANALYSIS*
- ANALYSIS (GAS):**
See *GAS ANALYSIS*
- ANALYSIS (NEUTRON ACTIVATION):**
See *NEUTRON ACTIVATION ANALYSIS*
- ANALYSIS (PHOTON ACTIVATION):**
See *PHOTON ACTIVATION ANALYSIS*
- ANALYSIS (QUALITATIVE CHEMICAL):**
See *QUALITATIVE CHEMICAL ANALYSIS*
- ANALYSIS (QUANTITATIVE CHEMICAL):**
See *QUANTITATIVE CHEMICAL ANALYSIS*
- ANALYSIS (STRUCTURAL CHEMICAL):**
See *STRUCTURAL CHEMICAL ANALYSIS*
- ANALYTIC FUNCTIONS:**
extrapolation
Empirical continuation of the differential cross section. (A11, A21). 477589
- ANALYTICAL SOLUTION:**
(For the procedure only.)
- transport theory**
The time dependent transport equation: perturbation method of solving and application. (A31). 483717
- ANALYZERS (PULSE):**
See *PULSE ANALYZERS*
- ANALYZING POWER:**
See *POLARIZATION-ASYMMETRY RATIO*
- ANAPHASE:**
See *MITOSIS*
- ANCHORING:**
See *FASTENING*
- ANDERSONITE:**
infrared spectra
Infrared spectra of liebigite, andersonite, voglite, and schroekingerite. (B13). 486728
- ANDES:**
age estimation
Rubidium-strontium geochronology of a transect of the Chilean Andes between latitudes 45° and 46° S. (B31). 460849
- hydrology**
Identifying the origin of underground water in the Andean Cordillera. (B32). [Data] 460894
- igneous rocks**
Rare earth and strontium isotope evidence concerning the petrogenesis of North Chilean ignimbrites. (B31). 476466
- lava**
Oxygen isotopes and the origin of high-⁸⁷Sr/⁸⁶Sr andesites. (B31). 460860
- radiometric surveys**
Rubidium-strontium geochronology of a transect of the Chilean Andes between latitudes 45° and 46° S. (B31). 460849
- ANDROGENS:**
See also *ANDROSTENEDIONE; ANDROSTERONE; TESTOSTERONE*
- receptors**
Androgen receptor assay with a specific ligand [³H]methyltriolenolone. (C45; radioligands; cytosol). 461152
- spleen colony formation**
Basic study on hematopoiesis-activating function of androgen. (C45). 482176
- Hematopoiesis-activating effects of androgen (fluoxymesterone).** (C45). 473181
- ANDROSTANES:**
See also *ANDROGENS; ANDROSTENEDIONE; ANDROSTERONE; TESTOSTERONE*
- ANDROSTENEDIONE:**
radioimmunoassay
A direct radio-immunoassay for plasma Δ^4 -androstenedione. Application to children. (C45). 484635
- ANDROSTERONE:**
radioimmunoassay
Androgen radioimmunoassay in the ram: results of direct plasma testosterone and dehydroepiandrosterone measurement and physiological evaluation. (C45). 461154
- ANEMIAS:**
See also *ISCHEMIA; THALASSEMIA*

- Protective environment for marrow transplant recipients. A prospective study. (C60, C15). 461367
- diagnosis**
- An evaluation of simultaneously administered free* and intrinsic factor bound radioactive cyanocobalamin in the diagnosis of pernicious anaemia in the elderly. (C62). [Data] 473469
- neoplasms**
- Erythrokinetics in mice bearing tumours in either preirradiated or unirradiated tissue. (C14). 463134
- radiation effects**
- Preventive central nervous system irradiation in children with acute nonlymphocytic leukemia. (C15; Complications of γ radiation). 469690
- ANEMOMETERS:**
- doppler effect**
- Fast reactor programme. (E35, F62, E21). 470751
- ANESTHETICS:**
- See also *PROCAINE*
- ANGIOMAS:**
- diagnosis**
- Scintigraphy and ultrasonography of hepatic hemangioma. (C62, C60; /sup 99m/Tc-sulfur colloid). 487749
- ANGIOTENSIN:**
- radioassay**
- New substrates for the radioassay of angiotensin converting enzyme of endothelial cells in culture. (C31). [Data] 466254
- radioimmunoassay**
- Circulating levels of angiotensin I measured by radioimmunoassay in hypertensive subjects. (C62; 125 I tracer technique). 487752
- ANGRA-1 REACTOR:**
- power supplies**
- Failures probability calculation of the energy supply of the Angra-1 reactor rods assembly. (E32). 473881
- reactor cells**
- Calculation of burnable cells-Hammer versus Leopard. (E32). 461697
- ANGRA-2 REACTOR:**
- foundations**
- The foundation of the units 2 and 3 of the nuclear power plant Angra dos Reis/Brasil. (E32). 461692
- pressure vessels**
- Integrity evaluation of the pressure vessels of Angra-2 and Angra-3 reactors by stress analysis. (E32). 461699
- ANGRA-3 REACTOR:**
- pressure vessels**
- Integrity evaluation of the pressure vessels of Angra-2 and Angra-3 reactors by stress analysis. (E32). 461699
- ANGULAR CORRELATION:**
- See also *DIFFERENTIAL PAC; PERTURBED ANGULAR CORRELATION*
- particle kinematics**
- On the general form of the particle angular correlation following the sequential decay of the heavy reaction products in one-level excitation hypothesis (I). Double angular correlation. (A34). 481601
- ANGULAR DISTRIBUTION:**
- fredholm equation**
- On the measurement integral technique of angular distributions. (E41). 470871
- neutrons**
- Parameter of the spin dependence from angular distributions of neutrons in (p,n) reactions. (A33). 486202
- precompound-nucleus emission**
- Calculation of preequilibrium angular distributions with the exciton model code PREANG. (A33). 478595
- unitarity**
- Non-convexity of unitary angular distributions and partial-wave ambiguities in the presence of error-affected data. (A11). 462083
- ANGULAR MOMENTUM:**
- See also *SPIN*
- conservation laws**
- Ion ring dynamics and angular momentum conservation. (A14). 467612
- eigenstates**
- An orthonormalization method: theory and application to the j-j coupling of fermions in a single j-shell. (A11). [Data] 483107
- measuring methods**
- A new experimental method for the study of high spin and excitation energy regions. (A34). 465229
- partial waves**
- Non-convexity of unitary angular distributions and partial-wave ambiguities in the presence of error-affected data. (A11). 462083
- ANGULAR MOMENTUM OPERATORS:**
- See also *PAULI SPIN OPERATORS*
- On the operator equivalents. (A11). 483035
- bosons**
- Schwinger boson representation for the quantized rotator. (A33). 465073
- ANGULAR MOMENTUM TRANSFER:**
- deep inelastic heavy ion react**
- Angular momentum transfer in deep inelastic collisions for the Ar+Au and Cu+Au systems. (A34). 475809
- galactic evolution**
- Angular momentum transport and secular change of gas distribution near the corotation resonance by a bar. (A15). 475316
- ANGULAR VELOCITY:**
- Shaf rotation speed measurement device, its checking and variations checking. (E42). 474151
- ANHARMONIC CRYSTALS:**
- debye-waller factor**
- Debye-Waller factor, dilatation, specific heat and susceptibility in anharmonic crystals. (A13). 471496
- Neutron scattering by anharmonic crystals and the effect of sublattice displacements. (A13). 481167
- doppler effect**
- Effect of anharmonicity on the second-order Doppler shift of the Moessbauer line. (A13). 477938
- moessbauer effect**
- Effect of anharmonicity on the second-order Doppler shift of the Moessbauer line. (A13). 477938
- neutron diffraction**
- Neutron scattering by anharmonic crystals and the effect of sublattice displacements. (A13). 481167
- Neutron scattering by anharmonic crystals and the effect of sublattice displacements. (A13). 485644
- specific heat**
- Debye-Waller factor, dilatation, specific heat and susceptibility in anharmonic crystals. (A13). 471496
- ANILINE:**
- atom-molecule collisions**
- Collision induced intramolecular vibrational energy transfer in $^1\text{B}_2$ aniline. (A12). [Data] 463961
- coloration**
- Studies on radiation-sensitive nonsilver halide materials. (I). (B14). 490483
- ANIMAL BREEDING:**
- genetic radiation effects**
- Responses to selection for body weight in descendants of x-irradiated rats. (C14). 487214
- ANIMAL CELLS:**
- (Includes human cells)
- See also *ASCITES TUMOR CELLS; BONE CELLS; BONE MARROW CELLS; CONNECTIVE TISSUE CELLS; CRYPT CELLS; EMBRYONIC CELLS; FIBROBLASTS; LYMPHOCYTES; MACROPHAGES; NERVE CELLS; SOMATIC CELLS; SPLEEN CELLS; STEM CELLS; THYMOCYTES; TUMOR CELLS; XP CELLS*
- acclimation**
- Relationship of heat killing and thermal radiosensitization to the duration of heating at 42°C . (C11, C63; Cultured Chinese hamster ovary cells; x rays). 476504
- biochemical reaction kinetics**
- Cancer and Toxicology Section. (C15). 472990
- biochemistry**
- Host range restriction of vaccinia virus in Chinese hamster ovary cells: relationship to shutoff of protein synthesis. (C12; Uv radiation). 469608
- biological radiation effects**
- Average versus viable cell multiplicity in survival determination for mammalian cells in vitro. (C11). 469599
- Biophysical studies with spatially correlated ions. 3. Cell survival studies using diatomic deuterium. (C11; Exposure of cultured V79 hamster cells to D_2^+ molecular ions). [Data] 490906
- Biophysical studies with spatially correlated ions. 1. Background and theoretical considerations. (C11; Exposure of cultured V79 hamster cells to D_2^+ molecular ions). 490931
- Cell response to chronic irradiation-modeling and simulation studies. (C11; X radiation). 472926
- Cells, targets, and molecules in radiation biology. (C11). [Data] 487175
- Conditions for inhibiting and enhancing effects of the protease inhibitor antipain on x-ray-induced neoplastic transformation in hamster and mouse cells. (C11). [Data] 487170
- Diethylthiocarbamate enhancement of radiation and hyperthermic effects on Chinese hamster cells in vitro. (C11; By inhibition of superoxide dismutase activity thus enhancing superoxide radical toxicity in the cells). 479759
- Differential effect of procaine on irradiated mammalian cells in culture. (C11; γ rays; HeLa cells; V-79 Chinese hamster cells). 487174
- Effect of negative pions on cells plated on glass and plastic surfaces. (C11; Hamsters). 469594
- Effect of tumor promoters, protease inhibitors, and repair processes on x-ray-induced sister chromatid exchanges in mouse cells. (C11). 487184
- Effects of caffeine on the expression of potentially lethal and sublethal damage in γ -irradiated cultured mammalian cells. (C11; Human T-1 cells and Chinese hamster V79-79 cells). [Data] 490932
- Effects of different growth conditions on survival after irradiation in hypoxia of human cells (NHK 3025) in vitro. (C11, C15). 469593
- Effects of hyperthermia and x irradiation on sister chromatid exchange (SCE) frequency in Chinese hamster ovary (CHO) cells. (C11). 479760
- Effects of hyperthermia on the cycling, noncycling, and hypoxic cells of irradiated and unirradiated multicell spheroids. (C11; Gamma radiation, hamsters). 469580
- Enhancement of thermal killing by polyamines. III. Synergism between spermine and γ radiation in hyperthermic Chinese hamster cells. (C11). [Data] 490905
- Influence of X-rays on the B- and T-cells in the spleen of mice and their reaction on mitogenetic substances. (C14). 469634
- Isolation of uv-sensitive variants of CHO-K1 by nylon cloth replicating. (C11). 469598
- Mammalian cell biology. (C11; Fast neutrons, x radiation, solar radiation). 469579
- The molecular ion experiment. (C11). 460992
- New approach to the analysis of survival data. (C11; Definition of parameters determined from data without regard to any assumed mechanism of action). 472924
- RBE-LET relations for induction of reproductive death and chromosome aberrations in mammalian cells. (C11). 469577

- Recovery of DNA synthesis after ultraviolet irradiation of xeroderma pigmentosum cells depends on excision repair and is blocked by caffeine. (C11). 472917
- Relative biological effectiveness for protons of energies up to 31 MeV. (C11; Biological effects studied). 472902
- Repair and survival after uv in quiescent and proliferating Microtus agrestis cells: different rates of incision and different dependence on DNA precursor supply. (C11). [Data] 487173
- Test for dose-modifying factors. (C11; RBE of fast neutrons (survival of Chinese hamster cells)). 461004
- Tritiated uracil, tritiated thymidine, and bromodeoxyuridine induced mutations in eucaryotic cells. (C12, C11; Saccharomyces cerevisiae, gamma radiation). 472930
- biological repair**
- Cells, targets, and molecules in radiation biology. (C11). [Data] 487175
- Repair of radiation damage caused by cyclotron-produced neutrons. (C11; Criticism of previous experimental results presented by Hall et al.). 472914
- Repair of sublethal damage in mammalian cells irradiated at ultrahigh dose rates. (C11; Chinese hamster ovary cells). 472905
- biological stress**
- Repair and cell cycle response in cells exposed to environmental biohazards. Progress report, June 1, 1978 - May 31, 1979. (C12). 490938
- cell cycle**
- Effects of different growth conditions on survival after irradiation in hypoxia of human cells (NHK 3025) in vitro. (C11, C15). 469593
- cell differentiation**
- Effects of radiation of cells in vivo: a rat mammary gland model. (C14). 469635
- cell proliferation**
- Effects of radiation of cells in vivo: a rat mammary gland model. (C14). 469635
- Repair and survival after uv in quiescent and proliferating Microtus agrestis cells: different rates of incision and different dependence on DNA precursor supply. (C11). [Data] 487173
- chromosomal aberrations**
- Assessing chemical mutagens: the risk to humans. (C11). 487172
- cytological techniques**
- Nuclear thread bridging the sister cells prior to radiation-induced cell fusion. (C11; X rays; HeLa cells; marsupial kidney cells). 479778
- dimensions**
- Geometry of flattened cells on endosteal surfaces of human bone: implications for the induction of osteosarcoma and the shape of the dose-response relationship. (C21; ^{226}Ra , ^{239}Pu). [Data] 479949
- dose rates**
- Analysis of thick source alpha particle spectrum from radium and its daughters in bone. (C21; ^{226}Ra , ^{214}Po). 479952
- fluorescence**
- Action of fluorescence visible light on mammalian cells. (C11). 487180
- genetic radiation effects**
- Effect of natural and synthetic acid polypeptides on normal and gamma-irradiated chinese hamster cells. (C11). 484456
- morphological changes**
- Characterization of Mason-Pfizer monkey virus-induced cell fusion. (C12; uv radiation). [Data] 494278
- Magnetic effects in cellular and molecular systems. (C11). 476499
- mutants**
- Isolation of uv-sensitive variants of CHO-K1 by nylon cloth replicating. (C11). 469598
- mutation frequency**
- Mutagenicity of 8-methoxypsoralen and long-wave ultraviolet irradiation in V-79 Chinese hamster cells. (C11). 484432
- mutations**
- Cytotoxic, mutagenic and carcinogenic effects of energy-related agents in diploid human cells which differ in DNA repair capacity. Progress report, December 1977 - July 1978. (C11). 460984
- Measurement of mutagenesis in mammalian cells. (C11; X radiation, caffeine, MNNG). [Data] 472925
- Tritiated uracil, tritiated thymidine, and bromodeoxyuridine induced mutations in eucaryotic cells. (C12, C11; Saccharomyces cerevisiae, gamma radiation). 472930
- near ultraviolet radiation**
- Action of fluorescence visible light on mammalian cells. (C11). 487180
- oxygen**
- The oxygen effect and adaptive response of cells. Report 3. Simulation of respiratory oxygenation and oxygen permeability of cells. (C11). 484440
- photosensitivity**
- The mechanism of photodynamic inactivation of human cells in vitro in the presence of haematoporphyrin. (C11). 490923
- radiation injuries**
- Cytotoxic, mutagenic and carcinogenic effects of energy-related agents in diploid human cells which differ in DNA repair capacity. Progress report, December 1977 - July 1978. (C11). 460984
- radiobiology**
- Biophysical studies with spatially correlated ions. 2. Multiple scattering, experimental facility, and dosimetry. (C11; D_2^+ molecular ions). [Data] 490910
- radiosensitivity**
- Cell killing and the sequencing of hyperthermia and radiation. (C11; x rays; Chinese hamster ovary cells). 472919
- Effect of treatment with various anisotonic solutions on the radiosensitivity of cultured CHO cells. (C11; X rays). 479772
- Fifth annual report of cancer research at the University of Chicago. (C11, C62, C15). 472901
- Increased sensitivity of anoxic mammalian cells irradiated with single pulses at very high dose rates. (C11). [Data] 460989
- Potentially lethal damage versus sublethal damage: independent repair processes in actively growing Chinese hamster cells. (C11; Effects of osmotic pressure differences due to NaCl concentrations in buffer solutions on sensitivity of cells to x rays). [Data] 476527
- Radiosensitization of hypoxic mammalian cells by dinitroimidazoles. (C11; γ rays; Chinese hamster cells (V-79-753-B)). [Data] 490902
- Relationship of heat killing and thermal radiosensitization to the duration of heating at 42°C . (C11, C63; Cultured Chinese hamster ovary cells; x rays). 476504
- Response of Chinese hamster ovary cells to fast neutron radiotherapy beams. III. Variation in relative biological effectiveness with position in the cell cycle. (C11). 460969
- sister chromatid exchanges**
- The relevance of caffeine post-treatment to SCE incidence induced in Chinese hamster cells. (C11). 484460
- survival curves**
- Average versus viable cell multiplicity in survival determination for mammalian cells in vitro. (C11). 469599
- Cell survival and radiation quality. (C11). [Data] 460957
- The implications for radiological protection of the synergistic interaction between radiation and other DNA damaging agents. (C11). [Data] 460955
- R.b.e. for cell survival at different positions in collimated neutron beams in relation to differences in lineal energy spectra. (C11). 463039
- Survival of thyroid cells following irradiation: a directly generated single-dose survival curve. (C14; X rays; rats). 476553
- survival time**
- Comparative study of the radioprotective effects of cysteamine, WR-2721, and WR-1065 in cultured human cells. (C11; Reproductive death of cells following γ irradiation used as indicator). [Data] 476516
- Study of the repair of potentially lethal and sublethal radiation damage in Chinese hamster cells exposed to extremely hypotonic NaCl solutions. (C11; X rays). [Data] 476517
- temperature dependence**
- Effects of hyperthermia on the cycling, noncycling, and hypoxic cells of irradiated and unirradiated multicell spheroids. (C11; Gamma radiation, hamsters). 469580
- ultraviolet radiation**
- Correlation of in vitro transformation with in vivo tumorigenicity in 10T_1 mouse cells exposed to UV light. (C11). 494258
- ANIMAL FEEDS:**
- See also **FORAGE**
- isotope dilution**
- Volatile fatty acids as indicators of fodder quality for buffalo. (C44, C31; $1,2\text{-}^{14}\text{C}$ sodium acetate). 463326
- nutrition**
- Volatile fatty acids as indicators of fodder quality for buffalo. (C44, C31; $1,2\text{-}^{14}\text{C}$ sodium acetate). 463326
- ANIMAL GROWTH:**
- prenatal irradiation**
- Oogenesis, follicular development and reproductive performance in the prenatally irradiated bovine. (C14). [Data] 482024
- ANIMAL TISSUES:**
- See **TISSUES**
- ANIMALS:**
- See also more specific entries as listed in the *INIS Thesaurus*.
- biological radiation effects**
- Environmental monitoring in the vicinity of the Savannah River Plant. Annual report for 1978. (C21, B33, B32). 487284
- monitoring**
- Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). 479676
- National Biological Monitoring Inventory. (C52, B33, C22, F30; Data base for information on biological monitoring of power plant impacts on environment). 473210
- radiation doses**
- Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
- Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
- radiation monitoring**
- Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). 479676
- National Biological Monitoring Inventory. (C52, B33, C22, F30; Data base for information on biological monitoring of power plant impacts on environment). 473210
- radioactive waste disposal**
- A microwave evaporation system for the waste treatment of radioactive animals. (E51). 492241
- respiration**
- CO_2 production in animals: analysis of potential errors in the doubly labeled water method. (C31; ^3H and ^{18}O). 466253
- ANIONS:**
- See also **HETEROPOLYANIONS; HYDROGEN IONS 1 MINUS**
- bound state**
- General applicability of a big molecule Gaussian SCF/CI program for calculations of excited metastables and of negative ion bound states and resonances. I. Stabilization method: H^- . (A12). 467229

- ion sources**
Recent negative ion source developments. (A10). 463866
- ANISOTROPY:**
gravitational fields
On anisotropic and homogeneous cosmological models in the renormalized theory of gravitation. (A15). 471926
- ANKYLOSING SPONDYLITIS:**
See SPONDYLITIS
- ANL:**
chemical effluents
Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). 479691
radiation monitoring
Comprehensive resurvey program to prevent radiological incidents at a national laboratory. (C15). 490996
radioactive effluents
Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). 479691
- ANMR:**
See ACOUSTIC NMR
- ANNEALING:**
electron beams
Scanning-electron-beam annealing of ion-implanted p-n junction diodes. (B25). 490738
- ANNIHILATION:**
angular correlation
Positron annihilation angular correlation measurements in neutron-irradiated niobium and niobium-3wt%zirconium. (A13). [Data] 489013
dislocations
Application of positron-electron annihilation method for determination of dislocation splitting width in d-transition metals. (A13). 474736
doppler broadening
Study of Doppler broadened annihilation spectra in zinc and zinc-containing 0.05 at. % iron. (A34). 465231
gamma spectra
Study of Doppler broadened annihilation spectra in zinc and zinc-containing 0.05 at. % iron. (A34). 465231
positrons
Application of positron-electron annihilation method for determination of dislocation splitting width in d-transition metals. (A13). 474736
Positron annihilation in vanadium hydrides. (A12). 464038
programming
Positron - an evaluating system for positron annihilation measurements on R-40 computers. (F51). 474387
- ANNIHILATION OPERATORS:**
New creation and annihilation operators in the Gauss plane and quantum friction. (A11). 488638
- fock representation**
On a certain Fock type representation of the Lie superalgebra A(0,1). (A11). 467104
- ANNULAR CORE PULSE REACTOR:**
See ACPR REACTOR
- ANNULAR SPACE:**
See also TOROIDAL CONFIGURATION
- ANODES:**
modulation
Anode modulation effects in multi-wire chambers. (E41). 492094
- ANOXIA:**
biological radiation effects
Blood cell counts in dogs after whole-body irradiation under hypoxic conditions. (C14). 466027
A comparative study of the radioprotective efficiency of mexamine and gas hypoxic mixture in experiments on macaca rhesus. (C14). 469663
biological recovery
Reoxygenation of tumours in 'sandwich' chambers. (C11). 490928
radiation effects
Effect of x irradiation on survival of rabbits with staphylococcal B enterotoxemia. (C14). 461048
radiation protection
Effect of gas hypoxia duration on its radioprotective efficiency. (C14). 479873
Method for patient protection during radiological procedures. (C15). 479892
Radiation response modified by degradable starch microspheres. (C14). 463131
Radioprotective effect of total gas hypoxia in experiment. (C14). 479868
Skin protection during neoplasm irradiation under gas hypoxia. (C14). 479839
radiosensitivity
Dependence of hypoxia radiomodification effect on cell oxygenation level before irradiation. (C11). 479762
High-altitude hypoxia effect on the RS-1 neoplasm radiosensitivity. (C14). 479813
Radiosensitivity of lymph node metastases versus initial subcutaneous tumors in nude mice. (C14, C11, C63, C15; EMT6 tumor cells; γ rays). 490954
radiotherapy
Experimental clinical evaluation of an antiradiation protective technique using graded hypoxia. (C15, C14). 466181
- ANTARCTIC REGIONS:**
See also ANTARCTICA
isotope dating
A 30,000-yr isotope climatic record from Antarctic ice. (B31). 494204
- ANTARCTICA:**
isotope ratio
The initial $^{87}\text{Sr}/^{86}\text{Sr}$ ratios of the Kirwan Volcanics of Dronning Maud Land: Comparison with the Kirkpatrick Basalt, Transantarctic Mountains. (B31). 484342
resources
Resource and radioactivity survey in South Victoria Land. Field report, 1976-77 season. (B31). 490820
tritium
Artificial tritium fall-out at the South Pole. (B33). [Data] 490861
uranium ores
Foreign exploration. (B31). 476471
- ANTARES FACILITY:**
(Large CO₂ laser facility to be used at Los Alamos for laser fusion.)
amplifiers
Antares laser power amplifier. (A14). 489347
Large-area cold-cathode grid-controlled electron gun for Antares. (A14). 489326
diffraction
Diffraction measurements for LASL's Antares Laser System. Informal report. (A14). 481230
optical systems
Mechanical deflection analysis of diamond turned reflective optics. (A14). 492833
60-inch annular pitch polisher for LASL's LASER-fusion effort. (A14). 481238
power supplies
Development of spark cathode E-guns. Draft final rept, Phase I, July - October 1978. (A14). 481205
300-kJ, 200-kA Marx module for Antares. (A14). 489312
research programs
Laser Fusion Program at LASL. Progress report, July 1 - December 31, 1977. (A14). 481229
- ANTENNAS:**
electric impedance
Antenna impedance in the lower hybrid region. (A14). 464392
superconductivity
Superconductivity in antenna engineering. (E12). 480364
- ANTHONOMUS GRANDIS:**
See BOLL WEEVIL
- ANTHRACITE:**
activation analysis
Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- ANTHRAQUINONES:**
chemical radiation effects
Decoloration and degradation of an anthraquinone dye aqueous solution in flow system using an electron accelerator. (B14). 479178
[Data]
- ANTIBARYONS:**
See also ANTILAMBDA PARTICLES; ANTINEUTRONS; ANTIPROTONS; ANTISIGMA PARTICLES; ANTIXI PARTICLES
baryon resonances
Baryonium as baryon antibaryon bound states and resonances. (A21). 481426
bound state
Baryonium as baryon antibaryon bound states and resonances. (A21). 481426
- ANTIBIOTICS:**
See also ACTINOMYCIN; BLEOMYCIN; CHLORAMPHENICOL; CYCLOHEXIMIDE; MITOMYCIN; PENICILLIN; SULFADIAZINE
biosynthesis
Improved yields of daunomycinone glycosides in developmental mutants of Streptomyces coeruleorubidus. (C12). 463067
Mutants of Streptomyces coeruleorubidus impaired in the biosynthesis of daunomycinone glycosides and related metabolites. (C12). 463068
gamma radiation
The gamma irradiation of cephalosporins. (C45). 463342
metabolism
 ^{14}C ethambutol pharmacokinetics: experimental model. (C31). 491080
qualitative chemical analysis
Some aspects of aminoglycoside antibiotic measurement. (C45). 482167
radioimmunoassay
Measurement of three aminoglycoside antibiotics with a single radioimmunoassay system. (C62; Gentamicin, tobramycin, amikasin, ^{125}I tracer techniques). 470072
radioprotective substances
Protection of chlorella populations against gamma-ray exposure by antibiotics. (C13). 463094
- ANTIBODIES:**
biological effects
Physiopathology of blood platelets: a model system for studies of cell-to-cell interaction. Comprehensive three year progress report, August 1, 1975 - October 31, 1978. (C52). 476678
biosynthesis
Transplantation of autoimmune potential. IV. Reversal of the NZB autoimmune syndrome by bone marrow transplantation. (C14; X radiation). [Data] 479845
oncogenic viruses
A radioimmunoassay for virus antibody using binding of ^{125}I -labelled protein A. (C45). 487340
radioimmunoassay
Combined radioimmunoassay of HBs-antigen and anti-HBs using the Biotest combRIA-Au kit. (C45). 469878
Design of a single incubation column radioimmunoassay. (C62).

- 473489
Methods for binding cells to plastic: Application to a solid-phase radioimmunoassay for cell-surface antigens. (C45). 461159
A new method for measuring antibody using radiolabeled protein A in a solid-phase radioimmunoassay. (C45). 484637
A radioimmunoassay for virus antibody using binding of ^{125}I -labeled protein A. (C45). 487340
Simultaneous radioimmunoassay for specific antibodies to members of the human herpesvirus group. (C45). 469872
- salmonella**
Allotypic and idiotypic specificities of anti-Salmonella abortus-equi antibodies produced by rabbits subjected to successive irradiations. (C14). 463121
- ANTIBODY FORMATION:**
biological radiation effects
Irradiation effect on the production of homocytotropic and agglutinating antibodies in mice. (C14). 463140
mice
Irradiation effect on the production of homocytotropic and agglutinating antibodies in mice. (C14). 463140
- ANTICOAGULANTS:**
See also *HEPARIN*; *PSORALEN*
biological localization
Animal experiments on the pharmacokinetics of 4-amidinophenylpyruvic acid (APPA). (C21). 487300
globulins
The determination of antithrombin III by radioimmunoassay and its clinical application. (C62). [Data] 473411
radiosensitivity
Anticoagulation and high dose liver radiation. A preliminary report. (C15, C63). 469706
- ANTICORROSION:**
See *CORROSION PROTECTION*
- ANTIDEUTERONS:**
gev range 100-1000
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
nuclear reaction yield
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- ANTIIDIURETIC HORMONE:**
See *VASOPRESSIN*
- ANTIFERROMAGNETIC MATERIALS:**
heisenberg model
Nuclear spin-magnon relaxation in two-dimensional Heisenberg antiferromagnets. (A13). 459839
kapitza resistance
Magnetic boundary coupling between liquid ^3He and antiferromagnets. (A17). 462526
muon probes
 μSR in antiferromagnetic Cr_2O_3 and $\alpha\text{-Fe}_2\text{O}_3$. (A13). 474876
neutron diffraction
Fluctuations near the percolation threshold in two and three dimensions. (B15). 479320
Multi-critical points in weakly anisotropic magnetic systems. (A13). 474707
phase transformations
A model for antiferromagnet to superconductor transition. (A17). 481340
spectral density
Antiferromagnetic magnon states near stepped surface. (A13). [Data] 474757
- ANTIFERROMAGNETISM:**
critical field
Random antiferromagnet in a uniform field; a realization of a random field. (A13). 464146
hamiltonians
Mean-field theory of antiferromagnetic spin Hamiltonian with four spin interactions for bcc lattice. (A17). 464725
heisenberg model
Study of the features of a pair approximation for the resolution of the Heisenberg model. (A11). 471236
one-dimensional calculations
Renormalization group and other calculations for the one-dimensional spin-1/2 dimerized Heisenberg antiferromagnet. (A13). 477875
- ANTIGEN-ANTIBODY REACTIONS:**
hepatitis
Significance of radioimmunologically negative HBs antigen detection (AusRIA II, Abbott) in the upper negative cpm range. (C62). 470141
radioimmunoassay
Radioimmunological determination of soluble immune. (C62). 476792
- ANTIGENS:**
See also *ENDOTOXINS*; *TOXINS*
biological effects
Specific suppression of alloimmune responses by antigen. (C11; UV radiation). 465873
distribution
Radiation and chemical effects on viral transformation and tumor antigen expression. Annual progress report, August 1, 1978 - May 1, 1979. (C12). 487191
gonorrhea
Detection of gonococcal antigens in urine by radioimmunoassay. (C62). 491358
immune reactions
Marrow graft rejection in DLA-identical canine littermates: antigens involved are expressed on leukocytes and skin epithelial cells but probably not on platelets and red blood cells. (C14; Gamma radiation). 466108
- labelled compounds**
Digoxigenin derivatives. (B13). 476116
- radioimmunoassay**
Combined radioimmunoassay of HBs-antigen and anti-HBs using the Biotest combRIA-Au kit. (C45). 469878
Detection of gonococcal antigens in urine by radioimmunoassay. (C62). 491358
Detection of hemophilia A carriers by use of frozen plasma samples. (C62; Iodine isotopes). 470181
Immunodiagnosis of systemic aspergillosis. I. Antigenemia detected by radioimmunoassay in experimental infection. (C62; ^{125}I tracer technique). 461421
Improved indirect and direct radioimmunoassay for carcinoembryonic antigen. (C62; ^{125}I tracer technique). [Data] 487706
Interest of carcinoembryonic antigen radioimmunoassay in the cerebrospinal fluid. Comparison with cytological data. (C45). 491097
New technique for solid-phase immunoassay: application to hepatitis B surface antigen. (C62; ^{125}I tracer technique). 461417
Radioimmunoassay of hepatitis B e-antigen (HBeAg): identification of HBeAg not associated with immunoglobulins. (C45). [Data] 473174
Radioimmunoassay dose limits. (C45). 479997
Research on the comparative value of radio-immunoanalyses of three embryonic antigens: alpha 1 foeto-protein " αIFP " alpha 2H-isoferritin " α2HF " and carcino-embryonic antigen "CEA" for diagnosis and post-therapy observation. (C45). 484642
Tritium (^3H) radiolabeling of protein A and antibody to high specific activity: Application to cell surface antigen radioimmunoassays. (C45). 484648
- radioimmunology**
Radioimmunological analysis of canceroplacental antigen. (C62). 482401
- separation processes**
A rapid and specific method for separation of bound and free antigen in radioimmunoassay systems. (C62). 484764
Technique of separation of the complex antigen-antibody from the free antigen on polyacrylamide gel electrophoresis. (C45). 482163
- ANTIHISTAMINICS:**
radiosensitivity
Effect of selected drugs on first-stage radioemesis in beagle dogs. (C14; Following x irradiation of abdomen). 490953
- ANTIHYPERTENS:**
See also *ANTILAMBDA PARTICLES*; *ANTISIGMA PARTICLES*; *ANTIXI PARTICLES*
- ANTIKAONS:**
See also *ANTIKAONS NEUTRAL*; *KAONS MINUS*
- ANTIKAONS NEUTRAL:**
particle production
Neutral particle production from 300 GeV/c proton proton collisions in the Fermilab 15 foot bubble chamber. (A22; Cross sections, transverse distribution). [Data] 486144
Study of inclusive reactions $\text{K}^p \rightarrow \text{K-bar}^0 + \text{X}$ and $\text{K}^p \rightarrow \Lambda^0 + \text{X}$ at 6.5 GeV/c. (A22). 489938
proton-antiproton interactions
Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 475657
Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 468168
transition amplitudes
 K^0 bold-arrow-left-right K-bar^0 transition amplitude in the MIT bag model. (A21, A11). 486099
- ANTILAMBDA PARTICLES:**
particle production
Inclusive production of $\text{K}^0_{\text{sub}}(\text{S})$, Λ and anti Λ in anti pp interactions at 3.6 GeV/c. (A22). 472070
Neutral particle production from 300 GeV/c proton proton collisions in the Fermilab 15 foot bubble chamber. (A22; Cross sections, transverse distribution). [Data] 486144
Neutral strange particle production from nuclear targets by 300 GeV protons. (A22; Cross sections, Lorentz invariance). [Data] 478567
Resonance and neutral particle production in high energy $\pi\pi$ interactions. (A22; 360 GeV/c, cross sections, mechanisms). 468189
Search for high-mass resonances and study of neutral strange particle production in anti p p interactions at 14.75 GeV/c. (A22; Cross sections, rapidity, Feynman scaling, transverse momentum). [Data] 478548
- proton-antiproton interactions**
Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 475657
Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 468168
- ANTILEPTON-NEUTRON INTERACTION:**
See also *ANTINEUTRINO-NEUTRON INTERACT*
- ANTILEPTON-PROTON INTERACTIONS:**
See also *ANTINEUTRINO-PROTON INTERACTIO*
- ANTILEPTONS:**
See also *ANTINEUTRINOS*; *ELECTRON ANTINEUTRINOS*; *MUON ANTINEUTRINOS*; *MUONS PLUS*; *POSITRONS*
- ANTIMATTER:**
See also *ANTIBARYONS*; *ANTIDEUTERONS*; *ANTIKAONS NEUTRAL*; *ANTILAMBDA PARTICLES*; *ANTINEUTRINOS*; *ANTINEUTRONS*; *ANTINUCLEI*; *ANTIPARTICLES*; *ANTIPROTONS*; *ANTISIGMA PARTICLES*; *ANTITRITONS*; *ANTIXI PARTICLES*; *ELECTRON ANTINEUTRINOS*; *KAONS MINUS*; *MUON ANTINEUTRINOS*; *MUONS*

PLUS; PIONS MINUS; POSITRONS

ANTIMESONS:

See also ANTIKAONS NEUTRAL; KAONS MINUS; PIONS MINUS

ANTIMETABOLITES:

See also AMINOPTERIN; BROMOURACILS; BUDR; FLUOROURACILS; IODODEOXYURIDINE; IODOURACILS; METHOTREXATE

ANTIMITOTIC DRUGS:

See also ACTINOMYCIN; ALKYLATING AGENTS; AMINOPTERIN; BLEOMYCIN; BROMOURACILS; BUDR; ENDOXAN; FLUOROURACILS; IODODEOXYURIDINE; IODOURACILS; METHOTREXATE; MITOMYCIN; NITROGEN MUSTARD; VINBLASTINE

biological repair

Interaction between radiation and drug damage in mammalian cells. (C11). 494261

bone marrow

The enhancement of haemopoietic stem cell recovery in irradiated mice by prior treatment with cyclophosphamide. (C14). 487206

nucleosides

Potential radiosensitizing antiviral and anticancer pyrimidine nucleosides. Final report, June 1, 1974 - May 31, 1978. (B12, C60, C12). 468832

radiation injuries

Interaction between radiation and drug damage in mammalian cells. (C11). 494261

radioassay

Simple radiometric assay for methotrexate and other folate antagonists. (C62; Tritium tracer technique). 473435

whole-body irradiation

The enhancement of haemopoietic stem cell recovery in irradiated mice by prior treatment with cyclophosphamide. (C14). 487206

ANTIMONATES:

(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)

inorganic ion exchangers

Structural studies on some antimonate exchangers. (B12). 481678

ANTIMONIDES:

(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)

acoustic nmr

Uncoherent phonons at the resonance interaction of acoustic waves with the spin-system. (A13). 477882

electron cyclotron-resonance

Cyclotron resonance of electrons in InSb at hydrostatic pressure. (A13). 481120

nuclear magnetic resonance

Uncoherent phonons at the resonance interaction of acoustic waves with the spin-system. (A13). 477882

physical radiation effects

Irradiation effects in high-purity InSb. (B25). [Data] 469445

ultrasonic waves

Ultrasound modulation in n-InSb. (A13). 464185

ANTIMONY:

absorption spectroscopy

Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370

Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397

activation analysis

Evaluation of some procedures relevant to the determination of trace elemental components in biological materials by destructive neutron activation analysis. (B11). 468595

Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425

A neutron activation analysis of selenium, arsenic and antimony in rocks and sediments by simultaneous evaluation with bromide-strong phosphoric acid reagent. (B11). [Data] 462680

auger electron spectroscopy

Vapour phase $M_{4.5}N_{4.5}$ Auger electron spectra of antimony and tellurium. (B22). 484155

beta spectra

Experimental beta-decay energies of several neutron-rich nuclides with mass number $131 \leq A \leq 146$. (A34). [Data] 468506

charged-particle activation an

Proton-activation technique for the determination of antimony. (B11). 493511

coster-kronig transitions

 L_1 - $L_{2/3}$ /sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730

diffusion

AlSb precipitate evolution during Sb implantation in Al: experiment and theory. (B21). 479347

elasticity

Computation of elastic moduli from interatomic forces. (B24). 490688

electron collisions

Inelastic electron scattering investigation of the complete 4d shell. (A12; 300 keV). 463986

fission products

Evaluated neutron cross sections and resonance integrals of the fission products with $Z = 51$ -56. (A33). [Data] 493206

interatomic forces

Computation of elastic moduli from interatomic forces. (B24). 490688

ion collisions

K-K and K-L inner shell vacancy sharing during heavy ion collisions with solid and gas targets. (A12; 1 to 16 MeV, electron promotion, cross sections, mixing parameter). 485498

ion exchange chromatography

Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263

ion-atom collisions

 L_1 - $L_{2/3}$ /sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730

muon probes

Temperature and magnetic field dependence of the muonic Knight shift in antimony. (A13). 474777

neutron activation analysis

Determination of minor and trace elements in cassiterite by neutron activation analysis. (B11). 472317

Radiochemical activation analysis of arsenic, selenium and antimony in biological samples. (B11). [Data] 484000

radioactive waste processing

Process for decontaminating radioactive effluents, principally in antimony and ruthenium. (E51). 466872

type-i superconductors

Determination of the critical magnetic field of a superconducting Al-type As, Sb and Bi phase. (B22). 490626

ANTIMONY ALLOYS:

adsorption

AlSb precipitate evolution during Sb implantation in Al: experiment and theory. (B21). 479347

antiferromagnetism

Magnetic excitations in rare-earth antiferromagnets with bilinear and biquadratic pair couplings: Application to DySb. (B22). 481840

crystal growth

Directed crystallization and structure of InSb films on sulphide substrates. (B22). 476306

Stability of phase contact area during crystallization of indium antimonide thin layers. (B12). 465338

crystal structure

Crystal structure of $U_3Ni_5Sb_4$ and related compounds. (B22). 469157

Electronic behavior in alloys: Gold - non-transition-metal intermetallics. (B22). [Data] 465649

crystallization

Calculation of growth kinetics of indium antimonide layers out of supercooled melts. (B21). 469063

elasticity

Temperature dependence of Akhieser loss in indium antimonide. (B22). 490613

electron transfer

The width of the forbidden zone and electro-transfer parameters in monoantimonides of rare-earth elements. (B22). 476237

electronic structure

AlSb as a high-energy photon detector. (E41, B22). 461867

Polarized neutron diffraction study on the electronic state of MnSb. (A13). 464231

excitation

Magnetic excitations in uranium antimonide. (B22). [Data] 465615

hole mobility

AlSb as a high-energy photon detector. (E41, B22). 461867

intermetallic compounds

Crystal structure of $U_3Ni_5Sb_4$ and related compounds. (B22). 469157

ion implantation

AlSb precipitate evolution during Sb implantation in Al: experiment and theory. (B21). 479347

Formation of highly-doped thin layers by using knock-on effect. (B21). 479345

magnetic properties

Magnetic excitations in ferromagnetic CeSb. (B22). 479391

magnetization

Magnetisation and neutron studies of UTe and USbsub(0.8)TeSub(0.2). (A13). [Data] 462170

moessbauer effect

Hyperfine fields of ^{121}Sb in several magnetic phases of Mn_2Sb . (A13). [Data] 488955Hyperfine interactions of ^{57}Fe in $\text{FeSb}(1+x)\text{Sb}$. (A13). 474713

neutron diffraction

Magnetisation and neutron studies of UTe and USbsub(0.8)TeSub(0.2). (A13). [Data] 462170

phase diagrams

Study of interaction in $\text{EuTe-Sb}_2\text{Te}_3(\text{Bi}_2\text{Te}_3)$ and $\text{YbTe-Sb}_2\text{Te}_3(\text{Bi}_2\text{Te}_3)$ systems. (B12). 478885

Ternary Cd-Sb-Sn system. (B22). 484170

photoemission

Electronic behavior in alloys: Gold - non-transition-metal intermetallics. (B22). [Data] 465649

physical radiation effects

Irradiation effects in high-purity InSb. (B25). [Data] 469445

Radiation technology of the preparation of high-ohmic n-InSb. (B25, D23). 476396

semiconductor materials

Acceptor action of plastic bending in n-InSb single crystals. (B22). 493977

spin orientation

Two-dimensionally modulated magnetic structure of neodymium, commensurate-commensurate transitions in CeSb, and the devil's staircase. (B22). 479361

ANTIMONY CHLORIDES:

moessbauer effect

 ^{121}Sb Moessbauer spectroscopy in some mixed-valence antimony hexachlorides. (A13). [Data] 474797

ANTIMONY COMPLEXES:

water

Radio-tracer methods for studying speciation in natural waters. (B32, B11). 469536

ANTIMONY COMPOUNDS:

See also ANTIMONATES; ANTIMONIDES; ANTIMONY CHLORIDES; ANTIMONY IODIDES; ANTIMONY OXIDES; ANTIMONY SULFIDES; ANTIMONY TELLURIDES

- absorption spectroscopy**
Atomic absorption method of layer-by-layer determination of oxidized layers composition of indium antimonide. (B11). 486549
- chemical preparation**
Hydrothermal synthesis and crystallographic characteristics of crystals LaSbO_3 , PrSbO_3 , DySbO_3 . (B12). 468785
Synthesis and properties of alkali metal selenoantimonites $\text{A}'\text{SbSe}_2$ ($\text{A}' = \text{Li, Na, K, Rb, Cs}$). (B12). 490372
- crystal structure**
On the structural belonging of monoclinic high-pressure modification of indium antimonide InSbO_4 . (B12). 493736
- ferroelectric materials**
Dielectric and pyroelectric properties of new compound of potassium stibiniobate. (A13). 485616
- gadolinium ions**
Effects of exchange and crystal field in Van-Vleck's mononitrides and monochalcogenides. (A13). 471429
- hyperfine structure**
Effects of exchange and crystal field in Van-Vleck's mononitrides and monochalcogenides. (A13). 471429
- isotope dilution**
Determination of antimony by sub- and super-equivalence method of isotope dilution analysis. (B11). 475887

ANTIMONY IODIDES:

- photovoltaic effect**
Anomalous voltaic effect in semiconductors-ferroelectrics under irradiation of crystals with ionizing radiation. (A13). 492637
- vapors**
On interaction in gaseous phase in the antimony(bismuth) iodide-chalcogen systems. (B12). 490326
On interaction in gaseous phase in the antimony(bismuth) iodide-chalcogen systems. (B12). 490326

ANTIMONY IONS:

- ion implantation**
Improved semiconductive device and method. (A13). 492670
Study of defects in antimony implanted diamond. (B25, A13). 494170

ANTIMONY ISOTOPES:

- See also ANTIMONY 113; ANTIMONY 115; ANTIMONY 117; ANTIMONY 119; ANTIMONY 120; ANTIMONY 121; ANTIMONY 122; ANTIMONY 123; ANTIMONY 124; ANTIMONY 125; ANTIMONY 127; ANTIMONY 135; ANTIMONY 136
- collective model**
Collective properties of odd-mass Sb, I, Cs, and La nuclei. (A34; Bands, quasi-proton states, unexpected properties). [Data] 493404
- neutron activation analysis**
Influence of isotope composition change on determination of ion-implanted antimony by the neutron activation method. (B11). 486539

neutron reactions

- Neutron induced reactions in antimony isotopes at 14 MeV. (A31). 460257

radioactivation

- Neutron induced reactions in antimony isotopes at 14 MeV. (A31). 460257

ANTIMONY OXIDES:

- crystal lattices**
Crystallochemical identification of high-temperature modifications of LnSbO_4 ($\text{Ln} = \text{Nd-Lu}$ and Y). (B12). 465416

ANTIMONY SULFIDES:

- crystal lattices**
Description of specimen preparation and structural properties of single crystal SnS . (B12). 493741

ANTIMONY TELLURIDES:

- chemical preparation**
Synthesis and certain physical properties of $\text{A}'\text{SbTe}_2$ ($\text{A}' = \text{Li, Na, Rb, Cs}$) compounds. (B12). 468790
- crystal growth**
Preparation of homogeneous plate monocrystals of Sb_2Te_3 - Bi_2Te_3 and Bi_2Te_3 - Bi_2Se_3 solid solutions. (B12). 481653
- thermal conductivity**
Kinetic coefficients in solid solutions of the $(\text{Agsub}(x/2)\text{Pbsub}(1-x)\text{Sbsub}(x/2))\text{Te}$ type. (A13). 485577
- thermoelectric properties**
Kinetic coefficients in solid solutions of the $(\text{Agsub}(x/2)\text{Pbsub}(1-x)\text{Sbsub}(x/2))\text{Te}$ type. (A13). 485577

ANTIMONY 113:

- high spin states**
High-spin states in odd-mass /sup 113en-dash119/Sb: $\Delta J = 1$ bands on $9/2^+$ proton-hole states. (A34). 478769

ANTIMONY 115:

- e3-transitions**
Reduced matrix elements of M2 and E3 γ -transitions between single-quasiparticle states in Sb isotopes and electromagnetic core polarization effects. (A34). 460364
- gyromagnetic ratio**
g-factor of the $19/2^-$ isomer in ^{115}Sb . (A34). 475804
- high spin states**
High-spin states in odd-mass /sup 113en-dash119/Sb: $\Delta J = 1$ bands on $9/2^+$ proton-hole states. (A34). 478769
- m2-transitions**
Reduced matrix elements of M2 and E3 γ -transitions between single-quasiparticle states in Sb isotopes and electromagnetic core polarization effects. (A34). 460364

nuclear magnetic moments

Magnetic moments of the isomeric states in the ^{105}Ag , ^{115}Sb and ^{117}Sb isotopes. (A34). 493430

rotational states

g-factor of the $19/2^-$ isomer in ^{115}Sb . (A34). 475804

ANTIMONY 117:

- e3-transitions**
Reduced matrix elements of M2 and E3 γ -transitions between single-quasiparticle states in Sb isotopes and electromagnetic core polarization effects. (A34). 460364
- high spin states**
High-spin states in odd-mass /sup 113en-dash119/Sb: $\Delta J = 1$ bands on $9/2^+$ proton-hole states. (A34). 478769
- m2-transitions**
Reduced matrix elements of M2 and E3 γ -transitions between single-quasiparticle states in Sb isotopes and electromagnetic core polarization effects. (A34). 460364
- nuclear magnetic moments**
Magnetic moments of the isomeric states in the ^{105}Ag , ^{115}Sb and ^{117}Sb isotopes. (A34). 493430
- nuclear quadrupole resonance**
Systematical trends of nuclear quadrupolar relaxation in metallic liquid alloys of indium. (B25). 481888

ANTIMONY 119:

- energy levels**
Nuclear data sheets for A=119. (A33). 478601
- energy-level transitions**
Nuclear data sheets for A=119. (A33). 478601
- high spin states**
High-spin states in odd-mass /sup 113en-dash119/Sb: $\Delta J = 1$ bands on $9/2^+$ proton-hole states. (A34). 478769
Population of intrinsic high spin states with the direct $^{116}\text{Sn}(\alpha, p)^{119}\text{Sb}$ reaction. (A34). 486459

ANTIMONY 120:

- energy levels**
Low-lying levels in ^{120}Sb studied with the $^{120}\text{Sn}(p, n\gamma)$ reaction. (A34). 460320

ANTIMONY 121:

- energy levels**
Nuclear data sheets for A=121. (A34). 486465
- nuclear potential**
Nuclear structure effect on the imaginary part of the optical potential in ^{27}Al , ^{121}Sb , ^{123}Sb and ^{197}Au odd nuclei. (A33). 493327
- nuclear structure**
Nuclear data sheets for A=121. (A34). 486465

ANTIMONY 122:

- isomeric nuclei**
Excitation functions and isomeric relations for the $^{122}\text{Sn}(p, n)$ sup(122msub(3),g)Sb and $^{124}\text{Sn}(p, n)$ sup(124msub(2),msub(1))Sb. (A34, A33). 493451

ANTIMONY 123:

- nuclear potential**
Nuclear structure effect on the imaginary part of the optical potential in ^{27}Al , ^{121}Sb , ^{123}Sb and ^{197}Au odd nuclei. (A33). 493327

ANTIMONY 124:

- impurities**
Impurity diffusion of ^{113}Sn and ^{124}Sb in copper. (A13). 489010
- isomeric nuclei**
Excitation functions and isomeric relations for the $^{122}\text{Sn}(p, n)$ sup(122msub(3),g)Sb and $^{124}\text{Sn}(p, n)$ sup(124msub(2),msub(1))Sb. (A34, A33). 493451

ANTIMONY 125:

- radiation monitoring**
Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). 476480

- [Data] Radioactivity from nuclear explosions in ground level air and precipitation in Sweden. NaI(Tl)-measurements from mid-year 1972 to the end of 1975. (B33). [Data] 476478

- Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September-October 1976. (B31, C22, C21). 469512

- [Data] **radioecological concentration**
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September-October 1976. (B31, C22, C21). 469512

- [Data] **uptake**
A study of the uptake and toxicity of some stable and radioactive pollutants in marine organisms: antimony, silver, cobalt and strontium in mollusks, crustaceans and teleosts. (C22). 473105

ANTIMONY 127:

- collective model**
The $^{130}\text{Te}(p, \alpha)^{127}\text{Sb}$ reaction and the role of the collective neutron excitations. (A34). 481544

ANTIMONY 135:

- beta-minus decay**
Investigation of beta strength functions by neutron and gamma-ray spectroscopy. I. (A34). 475828
- delayed neutron precursors**
Does the simple statistical model describe delayed neutron emission. (A33). 483792

ANTIMONY 136:

- nuclear structure**
Nuclear data sheets for A=136. (A34). 486440

ANTIMONY 137:

See MUONS PLUS

ANTINEOPLASTIC DRUGS:

- genetic effects**
Offspring of patients treated for cancer in childhood. (C15). 487260

- mutagenesis**
Offspring of patients treated for cancer in childhood. (C15). 487260
- nucleosides**
Potential radiosensitizing antiviral and anticancer pyrimidine nucleosides. Final report, June 1, 1974 - May 31, 1978. (B12, C60, C12). 468832
- radiosensitivity**
Esophagitis induced by combined radiation and adriamycin. (C15, C63; Mediastinum irradiated to doses between 500 and 2500 rad.). 472994
Long term follow-up of combination chemotherapy - radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
- toxicity**
Long term follow-up of combination chemotherapy - radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
- ANTINEUTRINO-ELECTRON INTERACT:**
cross sections
Reactor antineutrino spectra and their application to antineutrino-induced reactions. (A33, A21). 486217
An upper limit to the cross section for the reaction anti γ sub(μ)e \rightarrow anti γ sub(μ)e \rightarrow anti γ sub(μ)e at SPS energies. (A22). 489922
- elastic scattering**
Fission antineutrino-induced reactions. (A34). [Data] 468477
New sum rules for the γ e and γ N scattering amplitudes. (A21). 478474
On the energy spectra of recoil electrons in ve(anti ve) elastic scattering. (A21). 493079
A search at high energies for antineutrino-electron elastic scattering. (A22). 489921
An upper limit to the cross section for the reaction anti γ sub(μ)e \rightarrow anti γ sub(μ)e at SPS energies. (A22). 489922
Upper limit to the cross section for anti γ sub(μ) + e \rightarrow anti γ sub(μ) + e \rightarrow at high energy. (A22). 478518
- inelastic scattering**
Polarization effects in the non-diagonal lepton processes. (A21). 493078
- intermediate vector bosons**
Tests of the single Z-boson hypothesis in some purely leptonic processes. I. (A21). 475548
Tests of the single Z-boson hypothesis in some purely leptonic processes. II. (A21). 475549
- muon antineutrinos**
Upper limit to the cross section for anti γ sub(μ) + e \rightarrow anti γ sub(μ) + e \rightarrow at high energy. (A22). 478518
- ANTINEUTRINO-NEUTRON INTERACT:**
charged-current interactions
Single pion production in antineutrino induced charged current interactions. (A22). 478531
- ANTINEUTRINO-NUCLEON INTERACT:**
See also ANTINEUTRINO-NEUTRON INTERACT; ANTINEUTRINO-PROTON INTERACTIO
Observation of tetra-lepton ($\mu^+e^+e^-$) production. (A22). [Data] 489968
The production of μ e events in antineutrino-nucleon interactions. (A22). 475652
Results on charged current data from C.D.H.S. (A22). [Data] 489979
- charged-current interactions**
Accelerator neutrino experiments. (A22, E16; Review lecture). 468203
Hadron production in charged current neutrino and antineutrino interactions at high energy. (A22). 468169
Recent results on neutrino reactions. (A22; Review). [Data] 478555
- cross sections**
Reactor antineutrino spectra and their application to antineutrino-induced reactions. (A33, A21). 486217
Recent results from the FNAL 15 foot bubble chamber. (A22). 460239
- deep inelastic scattering**
Weak processes induced by reactor antineutrinos. (A33). 493191
- elastic scattering**
Measurement of the energy and x dependence of the y distributions in antineutrino interactions. (A22, A11). [Data] 464880
New sum rules for the γ e and γ N scattering amplitudes. (A21). 478474
- flavor model**
On t-flavour production by neutrinos. (A21). 489855
- inclusive interactions**
Recent results on neutrino reactions. (A22; Review). [Data] 478555
- inelastic scattering**
Measurement of the y-distributions in antineutrino inelastic interactions with nucleons. (A22; Preliminary results, 10 to 200 GeV). [Data] 486120
- multiple production**
Multimuon production by high energy neutrinos and antineutrinos. (A22; Trimuons, tetramuons, preliminary results). 468185
- neutral-current interactions**
Comparison of single π^0 production by γ and anti γ neutral currents. (A22). 478532
Higgs boson production by very high energy neutrinos. (A21; 1 to 1000 TeV, cross sections). 475611
The structure of the weak neutral current: an analysis of the hadronic energy distribution from neutrino and antineutrino interactions. (A22). 468176
- particle production**
Neutrino experiments at high energies. (A22). 475671
QCD predictions for jet transverse momentum in lepton production. (A21). 483661
- scattering**
On scaling violations and anomalies. (A21). 462532
- ANTINEUTRINO-PROTON INTERACTIO:**
charged-current interactions
Charged current elastic antineutrino interactions in propane. (A22). 483683
Properties of the hadronic system produced in antineutrino proton interactions. (A22; Separation into current and fragmentation components). [Data] 489970
Single pion production in antineutrino induced charged current interactions. (A22). 478531
- elastic scattering**
Measurement of the elastic scattering of neutrinos and antineutrinos by protons. (A22). 486134
- neutral-current interactions**
Measurement of the elastic scattering of neutrinos and antineutrinos by protons. (A22). 486134
- ANTINEUTRINOS:**
See also ELECTRON ANTINEUTRINOS; MUON ANTINEUTRINOS
form factors
Neutrino form-factors in two-dimensional approximation of quantum electrodynamics. (A21). 486076
- ANTINEUTRONS:**
particle production
Production of n-bar's and Sigma-bar's in e \bar{e} annihilations. (A22). 486137
- ANTINUCLEI:**
See also ANTIDEUTERONS; ANTIPROTONS; ANTITRITONS
nuclear reaction yield
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- ANTINUCLEON BEAMS:**
See also ANTIPROTON BEAMS
- ANTINUCLEON REACTIONS:**
See also ANTIPROTON REACTIONS
vertex functions
Weak hadronic and radiative decays of non-strange charmed baryons in SU(3) for the u, d and c quark sector. (A21). 468090
- ANTINUCLEONS:**
See also ANTINEUTRONS; ANTIPROTONS
- ANTIOXIDANTS:**
excretion
The distribution of 14 C-ethoxyquin in rat. (C21). 463244
- radioprotective substances**
Relation between structure and antiradiation activity of bases in the pyrogallol and oxyhydroquinone series. (C14). 463177
- ANTIPARTICLE BEAMS:**
See also ANTIPROTON BEAMS
- ANTIPARTICLES:**
See also ANTIBARYONS; ANTIKAONS NEUTRAL; ANTILAMBDA PARTICLES; ANTINEUTRONS; ANTINEUTRONS; ANTIPROTONS; ANTISIGMA PARTICLES; ANTIXI PARTICLES; ELECTRON ANTINEUTRINOS; KAONS MINUS; MUON ANTINEUTRINOS; MUONS PLUS; PIONS MINUS; POSITRONS
bound state
Antiparticles as bound states of particles in the factorized S-matrix framework. (A21). 483658
- ANTIPROTON BEAMS:**
beam bunching
Antiproton momentum compactor-debuncher linac. (E16). 480467
- beam production**
Anti p production characteristics and collection systems. (E16). 480441
- beam transport**
Anti p production characteristics and collection systems. (E16). 480441
- colliding beams**
Bunched-beam p-p \bar{p} and p-p collisions. (E16, A22). 491581
- electron cooling**
Beam stability considerations during electron cooling. (E16). 480502
Collecting anti protons in the Fermilab Booster and very high energy proton-anti proton interactions. Appendix C. (E16). 480442
Electron beam cooling: prospects of ribbon-type E-beams. (E16). 480473
Electron space charge and solenoidal field effects on the proton cooling ring. (E16). 473699
End effects of the cooling section on the proton (antiproton) beam. (E16). 473667
Nonlinear electron - proton interactions during electron cooling. (E16). 494845
Relativistic electron cooling for high luminosity proton-anti proton colliding beams at very high energies. (E16). 480499
- stochastic processes**
Accommodating stochastic cooling at Fermilab. (E16). 480483
Proposed p-anti p colliding beam facility at CERN. (E16). 480430
Prospects for stochastic cooling and anti pp colliding beams. (E16). 491657
Stochastic cooling of antiprotons in the little cooling ring. (E16). 494841
- ANTIPROTON REACTIONS:**
antiproton-neutron interaction
Resonances in anti pn system from anti pD data. (A21). 483613
- deuterium target**
Rescattering effects in antiproton deuteron annihilation at intermediate energies. (A21). [Data] 481348
- differential cross sections**
Production of muon pairs in the continuum region by 39.5 GeV π^+ , K $^+$, p and anti-p beams incident on a copper target. (A22). [Data] 489935

- inelastic scattering**
Double inelastic interactions in anti p-d collisions in the 1.6-4.3 GeV/c incident anti p momentum range. (A22). 478533
- pair production**
Production of muon pairs by 225-GeV/c π^+ , K^+ , p^+ beams on nuclear targets. (A22). 478512
- particle production**
Kaons and antiprotons as probes of the nucleus. (A22). 475667
- rescattering**
Rescattering effects in antiproton deuteron annihilation at intermediate energies. (A21). [Data] 481348
- ANTIPROTON-NEUTRON INTERACTION:**
gev range 10-100
Antiproton-neutron interactions at 100 GeV/c. (A22). 478546
- ANTIPROTON-PROTON INTERACTIONS:**
See PROTON-ANTIPROTON INTERACTIONS
- ANTIPROTONIC ATOMS:**
See HADRONIC ATOMS
- ANTIPROTONS:**
cosmic ray flux
Cosmic antiproton spectrum at the top of the atmosphere derived from the new scaling model. (A21). 464756
gev range 100-1000
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- nuclear reaction yield**
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- pair production**
Spin correlations in the anti $a \rightarrow \phi(Z) \rightarrow \text{anti } b \text{ anti } b$ resonance reactions. (A21). 464739
- particle production**
Production of hadrons at large transverse momentum in 200-, 300-, and 400-GeV p-p and p-nucleus collisions. (A22). [Data] 464877
Quantum-chromodynamic predictions for high-p/sub T/ baryon production. (A21). 489848
Relative yields of secondary particles at 70 GeV/c proton interaction with nuclear targets. (A22). 486125
- proton reactions**
Weak absorption of antiprotons in their production by 10 GeV/c protons in Be, Al, Cu and Au nuclei. (A33). 493308
- ANTIPIRENETICS:**
See also ANTIPIRINE; QUININE
- ANTIPIRINE:**
iodine 131
Reinvestigation of the preparation of ^{131}I -iodoantipyrine from ^{131}I -iodide. (B13). 484084
- labelling**
Synthesis and kinetics of [^{18}F]-fluoroantipyrine in normal mice. (B13, C21, C62). 468920
- ANTISIGMA PARTICLES:**
particle production
Production of \bar{n} -bar's and Sigma-bar's in e^+e^- annihilations. (A22). 486137
- ANTITHYROID DRUGS:**
See also THIOURACIL; THIOUREA
biological effects
Study on the induction of thyroid tumors in rats using x irradiation in conjunction with a goitrogen. (C14; 1 methyl-2 mercaptoimidazole (methimazole)). [Data] 487219
- carcinogenesis**
Study on the induction of thyroid tumors in rats using x irradiation in conjunction with a goitrogen. (C14; 1 methyl-2 mercaptoimidazole (methimazole)). [Data] 487219
- ANTITRITONS:**
gev range 100-1000
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- nuclear reaction yield**
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- ANTIXI PARTICLES:**
particle production
 Ξ^- and Ξ^+ tilde production in πp interactions at 16 GeV/c. (A22). 468157
 Ξ^- and anti Ξ^+ production in πp interactions at 16 GeV/c. (A22). 478521
- ANTS:**
See INSECTS
- AORTA:**
biological radiation effects
Potentialities of slowly regenerating tissue protection with the help of radioprotectors. (C14). 479880
- biomedical radiography**
Deviation of the descending aorta associated with enlarged left atrium. (C61). 480258
Radiopaque investigation methods in evaluation of the results of aortal valvular disease surgery. (C61). 480206
Ultrasonography and angiography in the diagnosis of abdominal aortic aneurysm. (C61). 491278
- radiation injuries**
Interphase death and repair of radiation injuries to thoracic aorta endothelium of mammals. (C14). 484533
- ultrasonic waves**
Ultrasonography and angiography in the diagnosis of abdominal aortic aneurysm. (C61). 491278
- x-ray emission analysis**
Proton induced X-ray emission analysis of Pima Indian autopsy tissues. (B11). 490298
- APATITES:**
activation analysis
Instrumental neutron activation analysis of apatite-nepheline ores. (D22). 470276
- adsorption**
Mineral-contributed anion effects on the retention of trivalent actinides in the environment. (C52, E52, B31). [Data] 480091
- chemical composition**
Uranium in phosphate rock. (B31). 479571
- fission tracks**
Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- thermoluminescence**
Experimental study of the radiation temperature effect on thermoluminescence accumulation kinetics in minerals. (A13). 492669
- APERTURES:**
helical configuration
Radiation shelters. (C54). 476734
- APHIDS:**
radionuclide migration
Effect of the parasitoid *Diaeretiella rapae* on the feeding rate of its host *Brevicoryne brassicae*. (C21). 484554
- APLASTIC ANEMIA:**
See ANEMIAS
- APOLLO PROJECT:**
cosmic dust
Response of lunar ejecta and meteorites experiment (LEAM) to electrostatically charged lunar dust. (A15). 478207
- research programs**
Apollo's scientific legacy. (A15). 485909
- APPLES:**
radiation induced mutants
Mutation frequency increase in apple cultivar "Wealthy" by gamma irradiation. (C41). 484609
- APPLICATORS (RADIOTHERAPY):**
See RADIATION SOURCES
- APPROXIMATION (ADIABATIC):**
See ADIABATIC APPROXIMATION
- APPROXIMATION (BOHR):**
See NILSSON-MOTTETSON MODEL
- APPROXIMATION (BORN):**
See BORN APPROXIMATION
- APPROXIMATION (DISTORTED-WAVE):**
See DWBA
- APPROXIMATION (EIKONAL):**
See EIKONAL APPROXIMATION
- APPROXIMATION (EQUIV.-PHOTON):**
See EQUIVALENT-PHOTON APPROXIMATION
- APPROXIMATION (P3):**
See P3-APPROXIMATION
- APPROXIMATION (SEMICLASSICAL):**
See SEMICLASSICAL APPROXIMATION
- APPROXIMATION (SUDDEN):**
See SUDDEN APPROXIMATION
- APPROXIMATION (WILLIAMS-WEIZS.):**
See EQUIVALENT-PHOTON APPROXIMATION
- APSARA REACTOR:**
leaks
Stainless steel lining of APSARA pool. (E36). 470777
- neutron spectra**
Measurements of fast and epithermal spectra in APSARA. (E36). 480723
- AQUATIC ECOSYSTEMS:**
biological models
The biotest basin of the Forsmark nuclear power plant, Sweden. An experiment on the ecosystem level. (C22, C21, C52). 484591
Modelling techniques for predicting long-term consequences of the effects of radiation on natural aquatic populations and ecosystems. (C22). 484594
- biological radiation effects**
Experimental approaches to demonstrate the interactions of radiation with other environmental stresses. (C14). [Data] 484509
- contamination**
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
Panel summary report. (C22, D15). 484588
- delayed radiation effects**
Modelling techniques for predicting long-term consequences of the effects of radiation on natural aquatic populations and ecosystems. (C22). 484594
- dosimetry**
Methods of dosimetry for aquatic organisms. (D15, C22). 484787

- environment**
Cycling indices for ecosystem models. (C52). 491130
Population studies of echinoderms and growth and mortality of sea cucumbers. (B32). 490826
- minerals**
Hydrocarbon studies in Puget Sound and off the Washington coast. Progress report, March 1977 - February 1978. (C52, B32). [Data] 487435
Hydrocarbon studies in Puget Sound and off the Washington coast. Progress report, March 1978 - February 1979. (C52, B32). [Data] 487436
- monitoring**
Aquatic Ecology Section. (B32, C21; ⁶⁰Co, ¹³⁷Cs, ³H). 479658
- plutonium**
Plutonium and other transuranium elements in aquatic ecosystems; Plutonium and other transuranium elements in aquatic ecosystems. (C22, C52). 491052
- pollution**
Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). [Data] 479564
Biological effects of solvent extraction chemicals on aquatic organisms. (C52, C21). [Data] 469905
Synthetic Fuels Program. (C52). 480063
- radiation monitoring**
Distribution of tritium in a chronically contaminated lake. (C22, C21; White Oak Lake in Oak Ridge Reservation). [Data] 461116
- radioecological concentration**
Accumulation and loss of radionuclide in gastropods. (C22, C52). 461120
Preliminary studies on the radioactive contamination of mitilidae. (C52, C21). 482231
- radionuclide kinetics**
Ecosystem models. Volume 2. November, 1975 - 1977 (a bibliography with abstracts). Report for Nov 1975 - Nov 1977. (B31, B32). 465767
Ecosystem models. Volume 3. November, 1977 - October, 1978 (a bibliography with abstracts). Report for Nov 1977 - Oct 1978. (B31, B32). 465768
Evaluation of uncertainties in radioecological models. (C22, C21, C52; Statistical analysis of selected input parameters to determine source of uncertainties). 469808
- radionuclide migration**
Distribution of tritium in a chronically contaminated lake. (C22, C21; White Oak Lake in Oak Ridge Reservation). [Data] 461116
Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). 470006
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). 469512
Studies and research concerning BNFP: safety and environmental impact of interim AFR storage in the BNFP - FRSS. Final report. (E52, C52, C21; Human population dose commitments from away-from-reactor waste storage at the Fuel Storage Station at BNFP). 477473
- recommendations**
Panel summary report. (C22, D15). 484588
- response modifying factors**
Radiation effects in contaminated aquatic ecosystems and their relation to laboratory studies. (C22). 484593
- thermal pollution**
Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
- tritium**
Distribution of tritium in a chronically contaminated lake. (B32, C22). [Data] 490824
- uses**
Economic feasibility assessment of the Oak Ridge National Laboratory waste-heat polyculture concept. (B32). 465818
- waste processing**
Ozonation of make-up water for salmonid fish rearing facilities. Completion report. (C42). 461141
- AQUATIC ORGANISMS:**
(Unspecified biota characteristic of aquatic ecosystems.)
See also CRUSTACEANS; ECHINODERMS; FISHES; FROGS; MOLLUSCS; OYSTERS; PLANKTON; PRAWNS; SALAMANDERS; SALMON; SEA URCHINS; SHRIMP; TROUT
- contamination**
Biocide by-products in aquatic environments. Annual report, October 1, 1977 - September 30, 1978. (C52, B11; Analysis and toxicity of by-products from chlorine used in nuclear power plant cooling systems). [Data] 473199
Par pond circulation patterns and plankton sampling. (B32). 479673
- delayed radiation effects**
Modelling techniques for predicting the long-term consequences of radiation on natural aquatic populations. (C22). 484595
- deposition**
Fouling research and cleaning effect by sponge ball on condenser tubes. (E22). 470541
- entrainment**
Mathematical methods to evaluate entrainment of aquatic organisms by power plants. (C52, E22). 473229
Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
- Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
- environment**
Study of the agents and dynamics of coral bioerosion. (B32). 490831
- gamma sources**
Sealed sources for external radiation in water. (D15, C22). 484786
- internal irradiation**
Irradiation of aquatic animals by radionuclide incorporation. (C21). 484572
- mathematical models**
Modelling techniques for predicting the long-term consequences of radiation on natural aquatic populations. (C22). 484595
- radioactivity**
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
- radionuclide kinetics**
Transfer and incorporation of tritium in aquatic organisms. (C21). 491028
- sealed sources**
Sealed sources for external radiation in water. (D15, C22). 484786
- AQUEOUS HOMOGENEOUS REACTORS:**
See also PRNC-L-77 REACTOR
- AQUEOUS HUMOR:**
See BODY FLUIDS
- AQUEOUS SOLUTIONS:**
chemical analysis
Plasma atomic emission spectrometric determination of sulfur in the vacuum ultraviolet region of the spectrum. (B11; Determination of Hg, Se, As, I and P). 472340
chemical radiation effects
Investigation of detail structure of radical track for particles with different LET in frozen glass-like matrices. (B14). 479267
decontamination
Removing radionuclides from water. (E51). 482909
radiolysis
Aqueous radiation chemistry of protein and nucleic acid constituents: ESR and spin-trapping studies. (B14). [Data] 462791
Chlorine ion effect on molecular hydrogen peroxide yield during radiolysis of acidic and neutral aqueous solutions. (B14). 479165
Electron motions in aqueous systems - a survey. (C11, B14). 469583
Oxidation of the cyclohexadienyl radical by metal ions. (B14). 493786
Pulse radiolysis of aqueous solutions of mercurous sulfate. (B14). 472541
Radiation chemical preparation of metal ions of (1-4)B-groups in unstable oxidation state in aqueous solutions. (B14). 479161
A rate equation for the reaction of trapped electrons in aqueous 6M NaOH glass at 77K based on trap-to-trap migration and a fixed reaction distance. (B14). 493797
Reaction mechanism of cobalt(III) - polyamine complexes with OH radicals. (B14). 465484
Redox reactions of free radicals with Ni(II) complexes. A pulse radiolytic study. (B14). 472530
Spin correlation effects on reactions in spurs of radicals, radical ions and electrons after radiolysis. (B14). [Data] 462776
solubility
Gadolinium chloride, water and cyclohexylamine and 1-ethylcyclohexylamine chlorides systems. (B12). 465372
Gadolinium chloride, water and butylamine and dibutylamine chlorides systems. (B12). 465436
- AQUIFERS:**
(A stratum of permeable rock, sand, or gravel that will yield a significant quantity of water.)
Geohydrology of deposits of Claiborne age at the Savannah River Plant. (B31). 479621
- contamination**
Radiological status of the ground-water beneath the Hanford Project, January - December 1978. (B32, C52; Monitoring of total beta sources, tritium, and nitrate). [Data] 487132
- hydrology**
Study of the Kalamas Springs in Greece with environmental isotopes. (B31, B32). 465786
Verification studies of GWHEAD, a computer code for determining the ground water heat with three-dimensional flow. (B31). 479636
- natural radioactivity**
Geologic studies to identify the source for high levels of radium and barium in Illinois ground-water supplies: a preliminary report. Final report. (B32, C52). 487131
- porosity**
Numerical simulation of material transport in a regional ground-water flow system. (B31, B32, C52). 479632
- radionuclide migration**
Radiological status of the ground-water beneath the Hanford Project, January - December 1978. (B32, C52; Monitoring of total beta sources, tritium, and nitrate). [Data] 487132
- tracer techniques**
Determination of aquifer parameters by a two-well pulsed method using radioactive tracers - comments. (B32). 484372
Determination of aquifer parameters by a two-well pulsed method using radioactive tracers - reply. (B32). 484370
- ARAB REPUBLIC OF EGYPT:**
See EGYPTIAN ARAB REPUBLIC
- ARABINOSE:**
trapped electrons
Trapped electrons in irradiated single crystals of polyhydroxy compounds. (B14). 468939

ARALDITE:

chemical radiation effects

Radiation induced crosslinkings and cleavage in certain Araldites. (B14). 460609

photoelasticity

Photoelastic studies of crack propagation and arrest in polymers and 4340 steel. (B22, B24, E32). 481820

radiation hardening

Effects of neutron irradiation on the elastic moduli of certain araldites. (B25). 479556

tensile properties

Photoelastic studies of crack propagation and arrest in polymers and 4340 steel. (B22, B24, E32). 481820

ARBEITSGEMEINSCH. VERSUCHS R.:

See AVR REACTOR

ARC FURNACES:

fabrication

Forarco I. (B21; An arc furnace built at Campinas University (UNICAMP)-Brazil). 481777

ARC WELDING:

See also GAS TUNGSTEN-ARC WELDING; PLASMA ARC WELDING; SUBMERGED ARC WELDING

performance testing

Quality assurance in arc welding techniques by automatic process control and documentation. (E17). 461565

pipes

Method of internal build-up welding for small bore pipes. (B21). 469087

quality assurance

Quality assurance in arc welding techniques by automatic process control and documentation. (E17). 461565

ARCHAEOLOGICAL SPECIMENS:

activation analysis

Applications of neutron activation analysis (NAA) to archaeology and the humanities. (B11). 460373

dosimetry

Phototransfer method of determining archaeological dose of pottery sherds. (A13). 477939

fission tracks

Uranium analysis of fossil bones using fission track techniques and its applications to archaeological science. (B31). 472826

isotope dating

Carbon-14 dating: a comparison of beta and ion counting. (B31, B11). 476460

Uranium series dating of travertine from archaeological sites, Nahal Zin, Israel. (B31). 481940

neutron activation analysis

Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). 483958

preservation

Use of irradiation in clearance and preservation of items of collector's or historical value. (D23). 476877

qualitative chemical analysis

Archaeological significance of trace element analysis of South West African potsherds. (B11). 475869

quantitative chemical analysis

Archaeological significance of trace element analysis of South West African potsherds. (B11). 475869

x-ray emission analysis

Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). 483958

x-ray fluorescence analysis

X-ray analyses following ionization by alpha particles. (B11). 475896

ARCHAEOLOGY:

age estimation

Thermoluminescence dating: radiation dose-rate data. (B31). 494184

ARCO PROCESS:

See REPROCESSING

ARDENNES REACTOR:

in-service inspection

Inspection of Chooz power plant after ten years operation. (E32). 466689

reactor operation

Ardennes nuclear power station. Annual report, 1976. (E32). 494958

ARGON:

absorption spectra

Ultraviolet absorption by diatomic rare gas ions in E-beam excited plasmas. (A14). [Data] 464511

adsorption

Theory of orientational epitaxy in the self-consistent phonon approximation. (B24). 490698

adsorption isotherms

Condensation and compression of argon monolayers on graphite. (B24). 484298

afterglow

Investigation of the electron energy distribution function in an argon afterglow plasma. (A14). 474958

atom transport

Direct measurement of diffusion coefficients of sputtered atoms in Ar. (A12, A32). 485488

atom-atom collisions

Collision-induced atomic dipole moments. (A12). [Data] 463945

Collisional depolarization of argon 2p levels selectively excited in a discharge by means of a tunable laser. (A12). 471341

Collisional depopulation of excited Na s states by He, Ar, and Xe. (A12). 488806

Collisions of halogen (²P) and rare gas (¹S) atoms. (A12; Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets). [Data] 477708

Coupled-channel study of halogen (²P) + rare gas (¹S) scattering. (A12; partial waved, energy dependence, interference L-S coupling; differential cross sections). 485402

Crossed molecular beam studies on the interaction potentials for F(²P) + Ne, Ar, Kr(¹S). (A12). [Data] 463942

Differential-excitation studies of quasi-one-electron systems. (A12). 492510

Elastic and state changing collisions of a high Rydberg atom with a neutral atom or molecule. (A12). 471363

Energetic binary collisions in rare gas plasmas. (A12). 474648

Experimental determination of the Cs(7S)-rare-gas potential energy curves and of the 6S-7S collision-induced oscillator strengths. (A12). [Data] 474653

Experimental determination of the potential for Na(3²P) + Ar from differential scattering cross sections. (A12). 459727

Foreign-gas-induced relaxation of Rydberg S and D states in atomic sodium. (A12). 477737

An improved scattering potential for He*(2¹S) + Ar. (A12). 483219

Influence of inelastic collision between excited states on the electron energy distribution in argon. (A14, A12). 464506

Ionization of 0.5 MeV H by Ar and a comparison with the H⁺/Ar system. (A12). 467193

Line-shape theory and molecular dynamics in collision-induced light scattering. (A12). 467158

Relation between low-energy electron scattering and l-changing collisions of Rydberg atoms. (A12). 474591

Temperature effect on the collision-induced emission of S(¹S) with He, Ar, N₂, H₂, Kr, and Xe. (A12). 485408

Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092

Ultraviolet radiation produced in low-energy Ar + Ar and Kr + Kr collisions. (A12). 474650

Velocity dependence of the absolute total ionization cross section for collisions of argon atoms with singlet and triplet metastable helium atoms. (A12). 467345

atom-molecule collisions

Collision induced intramolecular vibrational energy transfer in ¹B₂ aniline. (A12). [Data] 463961

Collisional energy dependence of molecular ionization by metastable rare gas atoms. (A12). [Data] 464039

De-excitation of excited rare-gas atoms as studied by a pulse radiolysis method. (B14). 472519

Elastic and state changing collisions of a high Rydberg atom with a neutral atom or molecule. (A12). 471363

Energy dependence of rotational cross sections. (A12). 477815

Monte Carlo trajectory study of Ar + H₂ collisions: master-equation simulation of a 4500 K shock wave experiment with thermal rotation. (A12). 483224

Polarized, rotationally state-selected cross sections and anisotropic intermolecular potentials for LiF on Ar. (A12). 485540

Transfer of electronic excitation in collisions of metastable argon atoms with nitrogen molecules. (A12). [Data] 463972

A vibrational bias mechanism for diatomic dissociation: induction times and steady rates for O₂, H₂ and D₂ dilute in Ar. (A12). 483187

auger effect

High resolution LMM Auger spectra from argon implanted in Be and Si. (A12). 467348

auger electron spectroscopy

High-resolution LMM Auger spectra from argon implanted in Be and Si. (B22). 476353

binary mixtures

Fano factor in gas mixture of Ar + 10% CH₄. (E41). 492116

breakdown

Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104

charge exchange

Proton impact argon inner-shell charge transfer and ionisation: importance of couplings to target-centred d states. (A12). 488803

Subshell electron capture cross sections or argon atoms by protons. (A12). 488861

charge-exchange reactions

Charge-transfer reaction rate coefficients for He⁺ and Ne⁺ with Ar at 300 K. (A12). 488841

charged-particle transport

Further observation of ionization electrons drifting in liquid argon. (E41, A32). 466769

Total electron-loss cross sections and absolute charge state yields of 20-MeV Fe ions transmitted through gaseous targets. (A32). 475696

de-excitation

Pulse radiolysis studies of the de-excitation processes of excited rare gas atoms. (A12). [Data] 488824

Pulse radiolysis studies of some atomic and molecular processes in the gas phase. (A12). 467212

diffraction

Atomic beam diffraction and scattering from A (3 + 5) W (110) - carbide surface. (A12). 485415

diffusion

⁴⁰Ar-³⁹Ar age of the Shergotty achondrite and implications for its post-shock thermal history. (B31). [Data] 487064

Gas permeability of SENM rock salt. (E52). 474286

dipole moments

Collision-induced atomic dipole moments. (A12). [Data] 463945

elasticity

Computation of elastic moduli from interatomic forces. (B24). 490688

electric sparks

Inductively coupled argon plasma (ICP) in the emission spectroscopy. (A14). 481240

- electron capture**
 Modified binary-encounter calculations for electron capture from noble-gas atoms by protons. (A12). 488891
 Modified binary-encounter calculations for electron capture from noble-gas atoms by He⁺ ions. (A12). 488859
 Subshell electron capture cross sections or argon atoms by protons. (A12). 488861
- electron collisions**
 Average energy expended per ion pair, exciton enhanced ionization (Jesse effect), electron drift velocity, average electron energy and scintillation in rare gas liquids. (A12). 467190
 Electron swarm motion at high fields in gases. (A12). 467320
- electron reactions**
 Calculation of the differential cross section for excitation by electrons of argon ¹P₁, ³P₁, ³P₀, ³P₂ states at 30 eV. (A33). 472197
- electron-atom collisions**
 Experiments on multiphoton free-free transitions. (A12). 488927
 Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
 New experimental study of multiple ionization in noble gases by electron and photon impact. (A12). 485520
 A phaseshift analysis of experimental angular distributions of electrons elastically scattered from He, Ne and Ar over the range 0.5 to 20 eV. (A12). [Data] 474678
 Theoretical cross sections for ionization of metastable excimers Ne*₂ and Ar*₂ by electron impact. (A12). 474622
 Total cross sections for electron scattering by Ne, Ar, Kr and Xe. (A12). 462123
- electron-molecule collisions**
 Electron-impact ionization of Ar₂, ArKr, Kr₂, KrXe, and Xe₂. (A12). 488825
- electronic structure**
 Hydrogen in solid argon matrix. (A13). 471536
- energy levels**
 Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
 Role of relativistic effects and configuration mixing on the 1s2s3p⁴P (J=5/2) state of argon. (A12; Spin-forbidden transition rate, lifetime, fluorescent yields). [Data] 485541
- epitaxy**
 Theory of orientational epitaxy in the self-consistent phonon approximation. (B24). 490698
- euporium**
 Phonon sidebands (Stokes and anti-Stokes) in the optical spectra of rare earth atoms in rare gas matrices. (A12). 459750
- fluorescence**
 An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- glow discharges**
 Spectroscopic study in the Ar-O₂ and Xe-CO₂ glow discharges. (A12). 467337
- heavy ion reactions**
 Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200
- high-beta plasma**
 Experiments on magnetic-field-line reconnection. (A14). 485816
- hydrogen additions**
 Hydrogen in solid argon matrix. (A13). 471536
- inner-shell ionization**
 Proton impact argon inner-shell charge transfer and ionisation: importance of couplings to target-centred d states. (A12). 488803
- interatomic forces**
 Computation of elastic moduli from interatomic forces. (B24). 490688
- intermolecular forces**
 H atom-rare gas interaction potentials from an electron gas model. (A12). 459719
- ion collisions**
 Determination of intermolecular forces at moderately high temperatures. (A12). 471374
- ion-atom collisions**
 K-K and K-L inner shell vacancy sharing during heavy ion collisions with solid and gas targets. (A12; 1 to 16 MeV, electron promotion, cross sections, mixing parameter). 485498
- ion-atom collisions**
 Charge condition of the projectile as a parameter in ion-atom collisions. (A12). 471346
 Charge transfer reactions of ground N⁺(P) and excited N⁺(D) state ions with neutral molecules. (A12). 467266
 Differential cross sections for ionization of argon by 0.3-2-MeV He²⁺ and He⁺ ions. (A12). 488918
 Differential-excitation studies of quasi-one-electron systems. (A12). 492511
 Double differential cross sections for charge exchange processes. (A12). 467276
 Energy-loss spectra of product ions in electron capture. (A12). [Data] 462150
 Inner-shell-electron capture by H⁺, He²⁺, and Li³⁺ projectiles from CH₄, Ne, and Ar. (A12). 485513
 Interaction potential for the X⁺Σ state of Li⁺ + Ar. (A12). 477802
 Ionization of 0.5 MeV H by Ar and a comparison with the H⁺/Ar system. (A12). 467193
 K-K and K-L inner shell vacancy sharing during heavy ion collisions with solid and gas targets. (A12; 1 to 16 MeV, electron promotion, cross sections, mixing parameter). 485498
 Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754
 Multiple-ionisation cross sections for highly stripped ions colliding with He, Ne and Ar. (A12). 477801
- Observation of mixed-parity electric-dipole oscillations in charge transfer to the n = 2 hydrogen levels by fast protons in gases. (A12). 474654
 Outer-shell excitations of Zn II levels in Zn⁺-He, Ne, Ar, Kr collisions. (A12). 488748
 Projectile Auger spectra of gas- and foil-excited oxygen ions at MeV energies. (A12). 463956
 Scaling of cross sections for K-electron capture by high-energy protons and alpha-particles from the multielectron atoms. (A12). 467283
 Selected topics from the theory of electron-atom and atom-atom collisions. (A12). 459756
 Single- and double-electron capture by 1-100-keV protons in collisions with magnesium and barium atoms. (A12). 477796
 Technical progress report, October 1, 1977-September 30, 1978. (A12). [Data] 474681
- ion-molecule collisions**
 Charge transfer reactions of ground N⁺(P) and excited N⁺(D) state ions with neutral molecules. (A12). 467266
- ionization**
 Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
 Threshold ionization region in inert gases. (A12). 463973
- ionization potential**
 Virial scaling corrections to Koopmans' ionization potential in positive ions of He, Ne, and Ar series. (A12). 467306
- isotope separation**
 Isotope separation in crossed-jet systems. (D11). 461439
- k shell**
 An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
 K_{sub(α)}^{sup(h)}/K_{sub(αα)} branching ratios of S and Ar in dependence on S projectile-charge state. (A12). 477836
- l shell**
 Relative line intensities in the argon L X-ray emission spectra produced by 0.3 to 3 keV electron impact. (A12). 471317
- luminescence**
 Luminescence decay in condensed argon under high energy excitation. (A32). 481455
- muonic atoms**
 Capture of muons in atoms. (A12; Lecture, atomic cascade). [Data] 492549
- oscillator strengths**
 Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- p states**
 Calculation of the differential cross section for excitation by electrons of argon ¹P₁, ³P₁, ³P₀, ³P₂ states at 30 eV. (A33). 472197
- photoionization**
 Laser photodetachment of electrons from O₂⁻ in nonpolar liquids. (B12). 476085
 Multiple photoionisation in the rare gases from threshold to 280 eV. (A12). 492535
 New experimental study of multiple ionization in noble gases by electron and photon impact. (A12). 485520
 Recent progress in the study of photoionization processes of atomic species by electron spectroscopy using synchrotron radiation. (A12). 459709
 Studies in the electronic structure of matter. (A12, A13, B24). [Data] 474627
- photon-atom collisions**
 R-matrix theory of atomic and molecular processes. (A12). 477714
- physical properties**
 Studies of the energy density functional approach. I. Kinetic Energy. (A12). 477827
- plasma waves**
 Structure of shock waves in partially ionized argon. (A14). [Data] 462392
- positron collisions**
 Theoretical study of the differential positronium cross section with helium and argon targets. (A12). 467210
- positron-atom collisions**
 Measurement of differential cross sections for the elastic scattering of positrons by argon atoms. (A12). 485422
 Positron scattering from argon. (A12). [Data] 462136
- potential energy**
 An improved scattering potential for He*(2³S) + Ar. (A12). 483219
- radiolysis**
 De-excitation of excited rare-gas atoms as studied by a pulse radiolysis method. (B14). 472519
- samarium**
 Phonon sidebands (Stokes and anti-Stokes) in the optical spectra of rare earth atoms in rare gas matrices. (A12). 459750
- scattering lengths**
 Measurement of coherent neutron scattering lengths of gases. (A12). [Data] 483181
- shock waves**
 Ionizing argon boundary layers. (A13). [Data] 474828
- thermal conductivity**
 Thermal conductivity of the helium-argon system. (B24). 487004
- townsend discharge**
 Experimental and theoretical study of the electron cascade induced in a gas by laser light. (A12). 471360
- triplets**
 Evidence for a triplet state of the self-trapped exciton states in liquid argon, krypton and xenon. (A12). [Data] 474609
- x-ray spectra**
 Relative line intensities in the argon L X-ray emission spectra produced by 0.3 to 3 keV electron impact. (A12). 471317

ARGON COMPOUNDS:

interatomic forces

Analytic potential functions for weakly bound molecules: The X and A states of NaAr and the A state of NaNe. (A10). [Data] 463870

ARGON IONS:

carcinogenesis

Tumorigenic action of beta, proton, alpha, and electron radiation on the rat skin. Progress report, August 1, 1977 - January 31, 1979. (C14). 461031

collisions

Application of matrix isolation spectroscopy to the measurement of sputtering yields. (B21). 476232
Argon ion sputtering of niobium and niobium alloys. (A12, B22; 15 keV, surface topography, sputtering yield). [Data] 477829
Energy spectra of uranium atoms sputtered from uranium metal and uranium dioxide targets. (A12; 1 to 1000 eV). 467342
K-K and K-L inner shell vacancy sharing during heavy ion collisions with solid and gas targets. (A12; 1 to 16 MeV, electron promotion, cross sections, mixing parameter). 485498
Mass effects on angular distribution of sputtered atoms. (A12, A15). 485504

Particle ejection from ion-bombarded clean and reacted single-crystal surfaces. (A12). 474679
Preferential sputtering of Ta₂O₅ by argon ions. (A12). 474592
Sputtering of two-phase polycrystalline metals. (A12). 474666
Sputtering of uranium. (A12, B25; Yields, H⁺ and He⁺ ions, 13 to 120 keV, angular distributions). 459731

correlations

Correlation diagram of Kr-Ar⁺ heteronuclear system. Interpretation of quasi-molecular Auger spectra. (A12). 474586

desorption

Ion and electron desorption of neutral molecules from stainless steel (304). (A14). 475001

electron capture

Collision-induced ionization of highly excited ions and electron capture of doubly and triply charged ions. (A12). 467282

electron emission

Ion-electron emission from spherical targets. (A13). [Data] 471441

emission spectra

The continuum and the xi-function of an atmospheric argon plasma in the 10⁴K region. (A14). 471595

energy losses

Electron energy loss spectroscopy studies of the Si-SiO₂ interface. (A12). 488743

energy-level transitions

Breit-Pauli approximation for highly ionised beryllium-like ions up to Fe XXIII. (A12, A15). [Data] 462114
The 2s2p(²P,⁴) → 2s²(¹S_{sup}(e)) intercombination in beryllium-like Mg IX, Si XI, Ar XV, Ca XVII and Fe XXIII. (A12, A15). [Data] 462115

ion emission

Ion-electron emission from spherical targets. (A13). [Data] 471441
Secondary ion energy per unit mass spectra from polycrystalline copper. (E41). 461858

ion implantation

High fluence retention of noble gases implanted in silicon. (A13). 467483

ion-atom collisions

Asymmetric charge transfer between atomic ions and atoms below a few eV. (A12). [Data] 474597
Experimental study on multiply-charged ion collisions. (A12). 474620
Impact-parameter dependence of K- and L-X-rays produced in Ar-Al and Ar-Sn collisions. (A12). 488800
K-K and K-L inner shell vacancy sharing during heavy ion collisions with solid and gas targets. (A12; 1 to 16 MeV, electron promotion, cross sections, mixing parameter). 485498
Some reactions of Ar²⁺ with atoms and molecules at 300 K. (A12). 488907

ion-molecule collisions

Charge changing cross sections for heavy ions at energies to 8.5 MeV/amu. (A12; Preliminary cross sections, electron pickup and loss, 3.4 to 8.5 MeV/amu). [Data] 477695
Electron capture and ionization processes for Ar⁶⁺ incident on H₂ (90-1200) keV. (A12). 463979
Electronic transitions in the ion-molecule reaction (Ar⁺ + H₂ bold-arrow-left-right Ar + H₂⁺) → ArH⁺ + H. (A12). 477705
Energy disposal in thermal-energy charge transfer reactions determined by kinetic energy measurements of product ions: Ne⁺+O₂→O⁺+O+Ne and Ar⁺+O₂→O⁺+Ar. (A12). 477784
H₂(a ³Σ⁺/sub g/ → b ³Σ⁺/sub u/) continuum emission excited by low-energy rare-gas ion collisions. (A12). 467172
Reactions of Ar²⁺(²P) with CH₄, C₂H₂ and NO₂, of Ar²⁺(¹S) with H₂, N₂, O₂, CO₂, C₂H₂ and CH₄ and of Ar⁺ with CH₄ and NO₂. (A12). 488909
Some reactions of Ar²⁺ with atoms and molecules at 300 K. (A12). 488907

ionization

Collision-induced ionization of highly excited ions and electron capture of doubly and triply charged ions. (A12). 467282

irradiation

Phase-memory effect associated with lattice defects introduced by ion irradiation and a new-proposed nonvolatile digital memory device. (A13). 471593

let

Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373

lifetime

Measurement of the lifetime of the ³P₂ and ⁴P_{3/2} states in Ar¹⁶⁺ and Ar¹⁵⁺. (A12). [Data] 481019

oscillator strengths

Breit-Pauli approximation for highly ionised beryllium-like ions up to Fe XXIII. (A12, A15). [Data] 462114
The 2s2p(²P,⁴) → 2s²(¹S_{sup}(e)) intercombination in beryllium-like Mg IX, Si XI, Ar XV, Ca XVII and Fe XXIII. (A12, A15). [Data] 462115

oxygen enhancement ratio

Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373

rbe

Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373

recoils

Energy distributions of fast ionized recoils ejected from crystals under ion bombardment. (A13). 467361

scattering

Investigation of the binary model of scattering of 1 keV to 25 eV Ar⁺ ions from a Cu surface. (A13). 459803

small angle scattering

Simulation of ion reflection from a single crystal at grazing angles. (A13). 489003

spin orientation

Angular variation in the orientation of He atoms and Ar⁺ ions produced in a beam-tilted-foil experiment. (A12). 462143

stopping power

A modified treatment of low energy elastic stopping power in dense structureless media. (A13). [Data] 471544

ARGON ISOTOPES:

See also ARGON 36; ARGON 37; ARGON 38; ARGON 39; ARGON 40; ARGON 41

gaseous diffusion process

Separation of argon isotopes by porous membrane method. (I). (D13). 470234

ARGON METHOD:

See ISOTOPE DATING

ARGON 36:

forbidden transitions

Decays of the lowest T<2 states in A<4N nuclei from ⁸Be to ⁴⁴Ti. (A34). 486379

ARGON 36 TARGET:

lithium 6 reactions

α spectroscopic factors in ⁴⁰Ca. (A34). 475807

ARGON 37:

electron capture decay

Double internal bremsstrahlung in the L-electron capture decay of ³⁷Ar. (A22). 483705

l capture

Atomic electron correlation in the M capture of ³⁷Ar. (A34). 490212

m capture

Atomic electron correlation in the M capture of ³⁷Ar. (A34). 490212

ARGON 38:

high spin states

High-spin yrast levels of ³⁸Ar. (A34). 483814

nuclear decay

Probabilities of transitions between ³⁸Cl lower states and the ³⁸Ar lower state decay at T=2. (A34). 493445

ARGON 38 TARGET:

helium 3 reactions

(³He,t) reaction mechanism via the ³⁸Ar(³He,t) ³⁸K reaction at 40 MeV. (A34). 468448

ARGON 39:

isotope dating

Comment on the paper by M.Ozima et al., 'Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics'. (B31). 476467
Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics. (B31). 476449

ARGON 40:

energy levels

Spin-parity combinations in ⁴⁰Ar. (A34). 490141

gaseous diffusion

Limited mobility of argon in a metamorphic terrain. (B31). 479581

giant resonance

Study of the giant quadrupole resonance in ⁴⁰Ar. (A34). 472245

isotope dating

Comment on the paper by M.Ozima et al., 'Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics'. (B31). 476467
Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics. (B31). 476449

ARGON 40 BEAMS:

physical radiation effects

The depth distribution of disorder produced by room temperature 30 keV Ar⁺ and Cl⁺ ion irradiation of silicon. (A13). 459781

radiation doses

Microdosimetry of 400 MeV/AMU ¹²C and 450 MeV/AMU ⁴⁰Ar beams. (C11, C55). 460977

ARGON 40 REACTIONS:

Fragmentations of ⁴⁰Ar at 213 MeV/nucleon. (A34). 468571
Nuclear spectroscopic studies. (A34; Summaries of research activities at Univ. of Tennessee). [Data] 486341

alpha decay radioisotopes

Time of flight mass identification system associated to a helium jet, first experimental results. (A34, E16). 460331

americium 243 target

Manifestation of shell effects in the interaction of heavy nuclei with ions of A>40. (A34). [Data] 486404

compound-nucleus reactions

Remeasurement of ⁴⁰Ar and ⁸⁴Kr excitation functions leading to the same compound nucleus, ¹³⁸Er. (A34). [Data] 465144

Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283

- deep inelastic heavy ion react**
Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
- deep inelastic scattering**
Production of sup(149g)Tb in deep inelastic transfer reactions. (A34). [Data] 468551
- elastic scattering**
Elastic scattering of ^{40}Ar on ^{40}Ca at Esub(lab) = 191, 236 and 272 MeV. (A34). 483938
- inclusive interactions**
Light fragment production and associated multiplicities from collisions of 1.85 GeV/nucleon ^{40}Ar . (A34, A22; Differential cross sections, reaction mechanisms). 468451
Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187
- Pion production in the $^{40}\text{Ar} + ^{40}\text{Ca}$ reaction at 1.05 GeV/nucleon. (A34). 490259
- mev range 100-1000**
Complete fusion and transfer reactions induced by 273 MeV ^{40}Ar on ^{159}Tb . (A34). 472234
Statistical model calculations in heavy ion reactions. (A34). 478730
- multiple production**
Multipion production in nuclear collisions. (A33, A21). [Data] 475737
- niobium 93 target**
Light particle emission after deep inelastic collisions of 400 MeV $^{40}\text{Ar} + ^{93}\text{Nb}$. (A34). 486451
- nuclear cascades**
An intranuclear cascade calculation of high-energy heavy-ion interactions. (A34). 478786
- nuclear reaction kinetics**
Some regularities of the evolution and disintegration of the double nuclear system formed in deep inelastic collisions of complex nuclei. (A34). [Data] 486479
- quasi-fission**
Influence of angular momentum of the mass distribution width of heavy ion induced fission. (A33). 483775
Production of ^{149}Tb in deep inelastic transfer reactions: an approach to the angular momentum of fragments. (A34). 481590
- statistical models**
Statistical model calculations in heavy ion reactions. (A34). 478730
- ARGON 40 TARGET:**
alpha reactions
Spin-parity combinations in ^{40}Ar . (A34). 490141
Study of the giant quadrupole resonance in ^{40}Ar . (A34). 472245
- beryllium 9 reactions**
Lifetime measurements using γ - γ coincidence techniques following a heavy ion induced fusion evaporation reaction; ^{46}Ti , an example. (A34). 483915
- proton reactions**
 ^{40}Ar fission by 1 GeV protons. (A34). 493359
Deep inelastic interactions of fast protons with Ar^{40} nuclei. (A34). 493360
- ARGON 41:**
environmental exposure pathway
Annual environmental monitoring report, January-December 1978. (B33, B32, C21; Stanford Linear Accelerator Center). [Data] 479727
- radioecological concentration**
Environmental monitoring report, Sandia Laboratories 1978. (B32, B31, C21). 487134
- ARGONAUT TYPE REACTORS:**
See also RB-2 REACTOR; URR REACTOR
- ARGONNE NATIONAL LABORATORY:**
See ANL
- ARGONNE RESEARCH REACTOR:**
See CP-5 REACTOR
- ARGONNE ZGS:**
See ZGS
- ARIEL SATELLITES:**
x-ray detection
Ariel 5 hard X-ray observations. (A15). 481300
- ARIZONA:**
geochemical surveys
Artillery peak orientation study, Mohave County, Arizona. (B31). 487115
- magnetic surveys**
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico. Volume 1. Instrumentation and methods. Final report. (B31). 472843
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Clifton Quadrangle. (B31; NURE program; 146 uranium anomalies). 465799
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Silver City Quadrangle. (B31; NURE program; 133 uranium anomalies). 465801
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Douglas Quadrangle. (B31; NURE program; 39 uranium anomalies). 465803
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Nogales Quadrangle. (B31; NURE program; 47 uranium anomalies). 465802
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Tucson Quadrangle. (B31; NURE program; 72 uranium anomalies). 465800
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Mesa Quadrangle. (B31; NURE program; 110 uranium anomalies). 465798
Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada), Williams Quadrangle (Arizona), Prescott Quadrangle (Arizona), and Kingman Quadrangle (Arizona, California, Nevada). Final report. Volume 1. (B31). [Data] 487125
Airborne gamma-ray spectrometer and magnetometer survey: Williams Quadrangle (Arizona). Final report. (B31). [Data] 479655
Airborne gamma-ray spectrometer and magnetometer survey: Prescott Quadrangle (Arizona). Final report. (B31). [Data] 479654
Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479653
Airborne gamma-ray spectrometer and magnetometer survey: Kingman Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479652
- radiometric surveys**
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico. Volume 1. Instrumentation and methods. Final report. (B31). 472843
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Silver City Quadrangle. (B31; NURE program; 133 uranium anomalies). 465801
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Mesa Quadrangle. (B31; NURE program; 110 uranium anomalies). 465798
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Douglas Quadrangle. (B31; NURE program; 39 uranium anomalies). 465803
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Nogales Quadrangle. (B31; NURE program; 47 uranium anomalies). 465802
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Tucson Quadrangle. (B31; NURE program; 72 uranium anomalies). 465800
Aerial radiometric and magnetic reconnaissance survey of portions of Arizona-New Mexico, Clifton Quadrangle. (B31; NURE program; 146 uranium anomalies). 465799
Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada), Williams Quadrangle (Arizona), Prescott Quadrangle (Arizona), and Kingman Quadrangle (Arizona, California, Nevada). Final report. Volume 1. (B31). [Data] 487125
Airborne gamma-ray spectrometer and magnetometer survey: Williams Quadrangle (Arizona). Final report. (B31). [Data] 479655
Airborne gamma-ray spectrometer and magnetometer survey: Prescott Quadrangle (Arizona). Final report. (B31). [Data] 479654
Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479653
Airborne gamma-ray spectrometer and magnetometer survey: Kingman Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479652
- ARKANSAS:**
geochemical surveys
Poplar Bluff $1^{\circ} \times 2^{\circ}$ NTMS area, Missouri and Arkansas: data release. (B31). [Data] 487094
- ARKANSAS POWER-LIGHT-1 REACTOR:**
See ARKANSAS-1 REACTOR
- ARKANSAS-1 REACTOR:**
loss of coolant
BEACON/MOD2A analysis of the Arkansas-1 reactor cavity during 1° a hypothetical hot leg break. (C52, E32). 473252
- radioactive waste disposal**
Liquid radwaste management operational experience at Arkansas Nuclear One-Unit 1. (E32). 473885
- radioactive waste facilities**
Liquid radwaste management operational experience at Arkansas Nuclear One-Unit 1. (E32). 473885
- ARMS:**
See also FINGERS; HANDS
- nerve cells**
Cell population kinetics and dose-time relationships for post-irradiation injury of the brachial plexus in man. (C15). 461065
- radiation injuries**
A case of malignant soft tissue tumor in the left upper arm induced by thorotrast administration. (C21). 476618
Cell population kinetics and dose-time relationships for post-irradiation injury of the brachial plexus in man. (C15). 461065
- ARMY PERSONNEL:**
See MILITARY PERSONNEL
- AROMATIC ACIDS:**
See CARBOXYLIC ACIDS
- AROMATIC COMPOUNDS:**
See AROMATICS
- AROMATIC HYDROCARBONS:**
See AROMATICS
- AROMATICS:**
See also more specific entries as listed in the INIS Thesaurus.
- anisotropy**
Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
- atom-molecule collisions**
Collisional energy dependence of molecular ionization by metastable rare gas atoms. (A12). 464039
- charge density**
Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
- chemical reaction yield**
Enantiomerically pure (R)-(+)-2-phenylethanol-2-d and -1,1,2-d, and (S)-(+)-1-phenylethane-1-d, -1,2-d, -1,2,2-d, and -1,2,2,2-d. (B12). 465303

- chemical reactions**
Intramolecular kinetic isotope effect in gas-phase proton-transfer reactions. (B12). 490420
Quantitative comparison between detailed (state selected) relative rate data and averaged (thermal) absolute rate data for complex forming reactions. (B12). 462735
Radiotracer experiments on carbon formation in zeolites. II. (B12). [Data] 465427
Reversible reaction of excess electrons with p-difluorobenzene in n-hexane and cyclohexane. (B12, B14). [Data] 472433
- chemiluminescence**
Chemiluminescence detector for gas chromatography with selectivity for iodine. (B11). [Data] 490283
- chemisorption**
AECL iodine scrubbing project. (E51, B12). 480856
- electrical insulators**
Electron attachment to perfluorocarbon compounds. I. C_2F_6 , $2\text{-C}_6\text{F}_6$, $1,3\text{-C}_6\text{F}_6$, C_6F_8 and $2\text{-C}_6\text{F}_8$. (A12). 467182
- electron-molecule collisions**
Electron attachment to perfluorocarbon compounds. I. C_2F_6 , $2\text{-C}_6\text{F}_6$, $1,3\text{-C}_6\text{F}_6$, C_6F_8 and $2\text{-C}_6\text{F}_8$. (A12). 467182
Electron attachment to perfluorocarbon compounds. II. C_2F_6 , C_6F_{10} , C_6F_{12} , C_7F_8 and C_8F_{16} : Relevance to gaseous dielectrics. (A12). 467286
Electronic spectroscopy of benzene and the fluorobenzenes by variable angle electron impact. (A10). [Data] 463869
Emission spectra and excitation processes of some benzene and naphthalene derivatives. (B14). 472537
Low-energy electron-impact spectroscopy on bridged [10] annulenes and other 10 π -electron systems. (A12, B12). 483226
- energy transfer**
Energy transfer from triplet aromatic hydrocarbons to Tb^{3+} and Eu^{3+} in aqueous micellar solutions. (B12). [Data] 490327
- excitation**
Emission spectra and excitation processes of some benzene and naphthalene derivatives. (B14). 472537
Low-energy electron-impact spectroscopy on bridged [10] annulenes and other 10 π -electron systems. (A12, B12). 483226
- gas chromatography**
Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330
- hydrolysis**
Neighboring ortho carboxyl group participation and α -deuterium isotope effects in the hydrolysis of benzyl bromides. (B12). [Data] 486677
- ion-molecule collisions**
Energy dependence of intensities of secondary ions from ethylbenzene formed in dissociative charge transfer reaction with rare gas ions. (B14). 468980
- labelling**
Theoretical calculations of kinetic isotope effects in the nucleophilic substitution reactions of para-substituted benzyl chlorides. (B12). 468706
- liquid column chromatography**
Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330
- mass spectroscopy**
Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330
- molecular orbital method**
Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
- nuclear magnetic resonance**
Carbon-13 spin lattice relaxation and photoelectron spectroscopy of some aromatic sulphides and sulphones. (A12). 459753
- organic chlorine compounds**
Uptake of three labelled polychlorinated aromatics by *Chlorella fusca*. (C21). 482108
- photochemistry**
Radical isomerization and hydrogen-deuterium exchange in reactions of silver p-tert-butylbenzoate. (B12). 460461
- radiolysis**
Kinetics of bimolecular reactions of 2-arylindandion-1,3-yl radicals. (B14). 479216
- reduction**
Solvent deuterium isotope effect on the liver alcohol dehydrogenase reaction. (B12). 490402
- solvolysis**
Use of chlorine kinetic isotope effects for evaluating ion pairing in nucleophilic displacements at saturated carbon. (B12). 460470
- spectral shift**
Proton, deuterium, and tritium nuclear magnetic resonance of intramolecular hydrogen bonds. Isotope effects and the shape of the potential energy function. (B12). 460436
- ARSENATES:**
(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- adsorption**
Unusual selectivities of stannic arsenate layers in DMSO-HCl systems: separation of zirconium from numerous metal ions. (B11). 465272
- inorganic ion exchangers**
Zirconium arsenophosphate as an ion exchanger. (B14). 479286
- radiolysis**
Radiation chemical transformation of arsenic ions in the presence of hypophosphite. (B14). 479223
- Radiolysis of arsenic ions in aqueous solutions. (B14). 479238
- structural chemical analysis**
Investigations on crystalline cerium arsenate and its alkali metal forms Pt. 2. (B12). [Data] 465341
- ARSENIC:**
- absorption spectroscopy**
Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- activation analysis**
Evaluation of some procedures relevant to the determination of trace elemental components in biological materials by destructive neutron activation analysis. (B11). 468595
Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
A neutron activation analysis of selenium, arsenic and antimony in rocks and sediments by simultaneous evolution with bromide-strong phosphoric acid reagent. (B11). [Data] 462680
Tropospheric arsenic over marine and continental regions. (C52, B11). 487603
- biological materials**
Determination of arsenic at nanogram level in biological tissues by radiochemical activation analysis. (B11). [Data] 465266
- chemical reactions**
Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). 466231
- diffusion**
Ion implanted solar cells. (B21). 479354
- elasticity**
Computation of elastic moduli from interatomic forces. (B24). 490688
- emission spectroscopy**
Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
Plasma atomic emission spectrometric determination of sulfur in the vacuum ultraviolet region of the spectrum. (B11; Determination of Hg, Se, As, I and P). 472340
- evaporation**
A neutron activation analysis of selenium, arsenic and antimony in rocks and sediments by simultaneous evolution with bromide-strong phosphoric acid reagent. (B11). [Data] 462680
- fishes**
Mercury, arsenic and cadmium in the unfried and fried fish. (B11). [Data] 462642
- health hazards**
Industrial exposure to arsenic. (B11). [Data] 472335
- interatomic forces**
Computation of elastic moduli from interatomic forces. (B24). 490688
- intestinal absorption**
Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). [Data] 466231
- ion implantation**
Comparison of pulsed electron beam-annealed and pulsed ruby laser-annealed ion-implanted silicon. (B21; 100keV As^+). 481785
- man**
Industrial exposure to arsenic. (B11). [Data] 472335
- neutron activation analysis**
The determination of arsenic in Loch Lomond sediment by instrumental neutron activation analysis. (B11). [Data] 493494
Determination of minor and trace elements in cassiterite by neutron activation analysis. (B11). 472317
Radiochemical activation analysis of arsenic, selenium and antimony in biological samples. (B11). [Data] 484000
Sulfide geochemical survey in Dawahan, Larap, Camarines Norte (Southern Luzon), Philippines. (B11). [Data] 484004
- order-disorder transformations**
Tunneling modes and local structural order in amorphous arsenic. (B22). 490591
- quantity ratio**
Use of the semi-absolute method in neutron activation analysis. (B11). 483954
- separation processes**
A neutron activation analysis of selenium, arsenic and antimony in rocks and sediments by simultaneous evolution with bromide-strong phosphoric acid reagent. (B11). [Data] 462680
- trace amounts**
Radiotracer techniques in investigating trace element distributions in copper metallurgy. (D24). 476881
- tunnel effect**
Tunneling modes and local structural order in amorphous arsenic. (B22). 490591
- type-i superconductors**
Determination of the critical magnetic field of a superconducting Al-type As, Sb and Bi phase. (B22). 490626
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
- ARSENIC ALLOYS:**
- crystal structure**
Systematical trends of nuclear quadrupolar relaxation in metallic liquid alloys of indium. (B25). 481888

- ion implantation**
Formation of highly-doped thin layers by using knock-on effect. (B21). 479345
- vitrification**
Glasses in the arsenic-tellurium-indium system. (B12). 493586
- ARSENIC COMPOUNDS:**
See also ALUMINIUM ARSENIDES; ARSENATES; ARSENIC HYDRIDES; ARSENIC SELENIDES; ARSENIC SULFIDES; ARSENIC TELLURIDES; ARSENIDES; CADMIUM ARSENIDES; GALLIUM ARSENIDES; INDIUM ARSENIDES; SILICON ARSENIDES; URANIUM ARSENIDES
- chemical radiation effects**
Radiation stimulated oxidation of arsenite by molecular oxygen in aqueous solutions. (B14). 479235
- isotope dilution**
Selective substoichiometry of arsenic(III) by thionalide extraction. (B11). 493506
- radiolysis**
Radiolysis of arsenic thioarsenite aqueous solutions. (B14). 479224
- solvent extraction**
Selective substoichiometry of arsenic(III) by thionalide extraction. (B11). 493506
- ARSENIC HYDRIDES:**
chemical reaction kinetics
Rate constants for the reactions of atomic chlorine with Group 4 and Group 5 hydrides. (B12). 472460
- ARSENIC IONS:**
ion implantation
Electron mobility in Si-MOSFETs with an additional implanted channel. (A13). [Data] 462187
Improved semiconductive device and method. (A13). 492670
Pulsed electron beam annealing of ion implanted Si layers. (A13). 467413
- ARSENIC ISOTOPES:**
See also ARSENIC 66; ARSENIC 67; ARSENIC 71; ARSENIC 73; ARSENIC 75; ARSENIC 77; ARSENIC 78; ARSENIC 80; ARSENIC 82; ARSENIC 85
- ARSENIC SELENIDES:**
phase diagrams
Projection of liquidus of the Ga, As long Se, Te. (B12). 493693
- ARSENIC SULFIDES:**
chemical radiation effects
Radiation effect on arsenic sulfide colloidal systems. (B14). 479129
- positrons**
Positron annihilation study on point structure defects in chalcogenide semiconductors. (A13). 464121
- ARSENIC TELLURIDES:**
phase diagrams
Projection of liquidus of the Ga, As long Se, Te. (B12). 493693
- point defects**
Point defects contribution into SnTe and Sb₂Te₃ surplus enthalpy, heat capacity and entropy. (B12). 486635
- thermal conductivity**
The thermal conductivity of semiconductors of the system As₂(Sesub(1-x)Tesub(x)), depending on temperature and pressure. (A13). 485566
- ARSENIC 66:**
half-life
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- mass**
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- ARSENIC 67:**
half-life
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- mass**
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- ARSENIC 71:**
isobaric analogs
Isobaric analogue resonances in ⁷¹Ge through proton elastic scattering on ⁷⁰Ge. (A34). 486447
- lifetime**
Application of the crystal blocking technique to the study of the highly excited nuclear continuum. (A34). 475810
- ARSENIC 73:**
bound state
Levels in ⁷³As through the ⁷²Ge (³He,d) reaction. (A34). 478763
- isobaric analogs**
Levels in ⁷³As through the ⁷²Ge (³He,d) reaction. (A34). 478763
- lifetime**
Application of the crystal blocking technique to the study of the highly excited nuclear continuum. (A34). 475810
- ARSENIC 75:**
electron capture
Directional correlation studies in ⁷⁵As and ¹³³Cs. (A34). 468544
- energy levels**
Decay of the 83 min ⁷⁵Ge and energy levels and γ -transitions in ⁷⁵As. (A34). 468445
- energy-level transitions**
Population of low-lying energy levels of a ⁷⁵As nucleus in the ⁷⁴Ge(p, γ)⁷⁵As reaction. (A34). 493399
- ion implantation**
Pulsed electron beam annealing of ion implanted Si layers. (A13). 467413
- lifetime**
Application of the crystal blocking technique to the study of the highly excited nuclear continuum. (A34). 475810
- multipolarity**
Directional correlation studies in ⁷⁵As and ¹³³Cs. (A34). 468544
- nuclear quadrupole resonance**
⁷⁵As nuclear quadrupole interactions and lattice dynamics in KH₂AsO₄-type ferroelectrics and antiferroelectrics. (A13). 477957
- quantity ratio**
Selective substoichiometry of arsenic(III) by thionalide extraction. (B11). 493506
- ARSENIC 75 TARGET:**
neutron reactions
Study of the systematics for (n,2n) reactions. (A34; 14.8 MeV). 460363
- photonuclear reactions**
Ineffectiveness of the quasi-deuteron mechanism of interaction in yielding (γ , nucleon) reactions on complex nuclei above 150 MeV. (A33). [Data] 481501
- pion minus reactions**
Absorption of stopped π^- in ⁵⁹Co, ⁷⁵As, ¹⁹⁷Au and ²⁰⁹Bi investigated by in-beam and activation γ -ray spectroscopy. (A34). 468543
- ARSENIC 77:**
solvent extraction
Extraction, separation and concentration of carrier-free ⁷⁷As(3) from reactor-irradiated metallic germanium. (B13). 490428
- ARSENIC 78:**
energy levels
Levels in atsup 78,80,82atAs from the atsup 78,80,82atSe(t,³He) reactions. (A34). 486307
- ARSENIC 80:**
energy levels
Levels in atsup 78,80,82atAs from the atsup 78,80,82atSe(t,³He) reactions. (A34). 486307
- ARSENIC 82:**
energy levels
Levels in atsup 78,80,82atAs from the atsup 78,80,82atSe(t,³He) reactions. (A34). 486307
- ARSENIC 85:**
beta-minus decay
Investigation of beta strength functions by neutron and gamma-ray spectroscopy. I. (A34). 475828
- delayed neutron precursors**
Does the simple statistical model describe delayed neutron emission. (A33). 483792
- ARSENIDES:**
See also ALUMINIUM ARSENIDES; CADMIUM ARSENIDES; GALLIUM ARSENIDES; INDIUM ARSENIDES; SILICON ARSENIDES; URANIUM ARSENIDES
- films**
Control of amorphous films properties in the case of combined sputtering of targets. (B22). 494004
- ARSONIUM COMPOUNDS:**
See ARSENIC COMPOUNDS
- ARTERIES:**
See also AORTA; CAROTID ARTERIES; CORONARIES
- albumins**
The mechanism of ventricle filling with radioactive marked albumen in 'normal pressure' hydrocephalus. (C62). 473431
- biological radiation effects**
Stereotactic gamma irradiation of basilar artery in cat. (C14). 461051
- biomedical radiography**
Angiography in acute mesenteric arterial insufficiency. (C61). 491267
Magnification renal arteriography. (C61). 473339
Microarteriography of the cadaveric human lumbar spine. (C61). 473384
- Recurrent cavernous branches of the ophthalmic artery. (C61). 473367
- Roentgenologic appearance of fibromuscular dysplasia. (C61). 473342
- Roentgenological anatomy of celiac trunk and its branches according to angiograms taken during life-time. (C61). 480251
- blood pressure**
Neonatal irradiation nephropathy in the growing dog. II. Plasma renin activity and arterial pressure following neonatal, sublethal, whole-body irradiation. (C14; γ rays; beagles). 479875
- fractionated irradiation**
Microvascular anastomoses in irradiated vessels. (C14). 479874
- hypertension**
Renin activity in blood plasma of renal and peripheral veins in patients with arterial hypertension. (C62). 482390
- permeability**
The use of radioiodinated human serum albumin in measurements of arterial permeability. (C21, C31). [Data] 473103
- radionuclide kinetics**
Effects of some vasodilators on calcium translocation in intact and fractionated vascular smooth muscle. (C21). 484582
- scintiscanning**
The assessment of digital vessel disease by dynamic hand scanning. (C62). 470093
- ARTERIOSCLEROSIS:**
diagnosis
Detection of atherosclerotic plaques in carotid arteries by the use of labelled fibrinogen. (C45; iodine 123). 473153
- ARTHRITIS:**
See RHEUMATIC DISEASES
- ARTHROPODS:**
See also APHIDS; BEETLES; BOLL WEEVIL; CERATITIS CAPITATA; CRUSTACEANS; DACUS OLEAE; DROSOPHILA; FLIES; FRUIT FLIES; GLOSSINA; INSECTS; MOTHS; PRAWNS; SHRIMP; TRIBOLIUM
- food chains**
Radioactive tracer studies of soil and litter arthropod food chains. Progress report, November 1, 1977 - October 31, 1978. (C22).

- 469805
ARYL RADICALS:
 See also PHENETHYL RADICALS
 biochemical reaction kinetics
 Arylamidation and arylation by the carcinogen N-2-fluorenylacetylamide: a sensitive and rapid radiochemical assay. (C62; ^{14}C tracer technique). [Data] 487688
 chemical reaction kinetics
 Investigation of the reactions of stable nitroxyl radical Pt. 3. (B14). [Data] 468970
- ASBESTOS:**
 health hazards
 Asbestos in cooling-tower waters. Final report. (C52, E22; Source, hazards, and recommendations at nuclear power plants). 487521
- ASCITES TUMOR CELLS:**
 biological radiation effects
 Modification of radiosensitivity of tumor cell. (C14). 472985
 Radiation-induced cell disintegrations in cultured rat hepatoma cells JTC 2. (C11). 481999
 cell killing
 Lethal effects of the complex of bleomycin with high specific activity ^{64}Cu on Ehrlich ascites tumour cells. (C11). 490903
 death
 Radiation-induced cell disintegrations in cultured rat hepatoma cells JTC 2. (C11). 481999
 dna
 Occurrence of pyrimidine-rich tracts in ascites tumor DNA and the formation of UV-induced thymine dimers. (C11). 484461
 fluorescence spectroscopy
 Pulse cytofluorimetry study of UV fluorescence of tumor cells following exposure to gamma and neutron radiation. (C14). 466057
 organic bromine compounds
 Chemical method for modification of proton radiation antitumor effect. (C11, C14). 479784
 proton beams
 Chemical method for modification of proton radiation antitumor effect. (C11, C14). 479784
 radiosensitizers
 Effect of misonidazole (Ro-07-0582) on the incidence of micronuclei in irradiated Ehrlich tumour ascites cells. (C14). [Data] 463158
 x radiation
 Increase of the effectiveness in irradiation of solid tumors using free nitroxyl-radical. (C14). 463185
- ASCORBIC ACID:**
 photolysis
 Excited-state photochemistry in the tris(2,2'-bipyridine)ruthenium(II) - sulfite system. (B12). [Data] 472420
 radiolysis
 Electron transfer rates and equilibria between substituted phenoxide ions and phenoxyl radicals. (B14, B12). [Data] 486770
 Radiolytic study of the action of perhydroxyl radicals with ascorbic acid. (C11, B14). 479776
 redox potential
 Electron transfer rates and equilibria between substituted phenoxide ions and phenoxyl radicals. (B14, B12). [Data] 486770
- ASDEX TOKAMAK:**
 confinement
 Novel method of determining the plasma position and its application to the ASDEX feedback system. (A14). 464462
 containers
 Stress analysis of the vacuum vessel of ASDEX. (A14). 464382
 induction
 Calculation of voltages and currents induced in the vacuum vessel of ASDEX by plasma disruptions. (A14). 464446
 joule heating
 Design, calculation and testing of the ASDEX ohmic heating coils. (A14). 464379
 magnet coils
 Strain and stress of the ASDEX multipole magnetic coils. (A14). 464362
 performance
 Status of the ASDEX tokamak. (A14). 464510
 power supplies
 Testing and performance of the 30 KA ohmic heating system for ASDEX. (A14). 464509
 reactor fueling
 Effect of the refuelling profile on the performance of divertor Tokamaks. (A14). 481183
- ASHES:**
 chemical composition
 Uranium in coal. (B31). 494190
 isotope dating
 Bracketing dates for two ash falls from Mount Mazama. (B11). 475893
 neutron activation analysis
 A method of measuring the ash content of coal in moving wagons. (D22). 480322
 radiometric analysis
 Simultaneous determination of alpha-emitting nuclides of radium through californium in large environmental and biological samples. (B11). 490313
 waste disposal
 Disposal and reclamation of southwestern coal and uranium wastes. (B31, B16, E52). 494217
- ASHING (DRY):**
 See DRY ASHING
- ASIA:**
 See also BANGLADESH; CHINA; HIROSHIMA; HONG KONG; INDIA; INDONESIA; IRAN; ISRAEL; JAPAN; PAKISTAN; PHILIPPINES;
- REPUBLIC OF KOREA; SAUDI ARABIA
- ASPARAGIC ACID:**
 See ASPARTIC ACID
- ASPARAGINIC ACID:**
 See ASPARTIC ACID
- ASPARTIC ACID:**
 auditory organs
 Central transport and distribution of labelled glutamic and aspartic acids to the cochlear nucleus in cats. (C30). 494350
 metabolism
 Amino acid metabolism in plant leaf, 3. (C45). 469874
 nitrogen 15
 Determination of the ratio of ^{15}N isotope in amino acid by gas chromatography-mass spectrometry. (B11). 472379
- ASPERGILLUS:**
 diagnosis
 Immunodiagnosis of systemic aspergillosis. I. Antigenemia detected by radioimmunoassay in experimental infection. (C62; ^{125}I tracer technique). 461421
 dna
 Methods for study of induced by ultraviolet irradiation DNA degradation in micellar fungi after the example of *Aspergillus nidulans*. (C11). 484473
 infectivity
 Immunodiagnosis of systemic aspergillosis. I. Antigenemia detected by radioimmunoassay in experimental infection. (C62; ^{125}I tracer technique). 461421
 irradiation
 Aspergillus nidulans as a test organism for assessing radio-induced chromosomal non-disjunction. (C12). 484487
 non-disjunction
 Aspergillus nidulans as a test organism for assessing radio-induced chromosomal non-disjunction. (C12). 484487
 radiation induced mutants
 Progress in food irradiation: Nigeria. (C12, C55, C43). 482007
 survival curves
 Lethal effects of γ -rays on *Aspergillus niger*, a citric acid producer. (C12). 484479
 toxicity
 Preliminary studies of the biosynthesis of Austin. (C31; *Aspergillus ustus*). 479979
- ASPHALTS:**
 decomposition
 Survey of microbial degradation of asphalts with notes on relationship to nuclear waste management. (E52). 461987
- ASPIRIN:**
 See ACETYSALICYLIC ACID
- ASSAYING (QUALITATIVE):**
 See QUALITATIVE CHEMICAL ANALYSIS
- ASSAYING (QUANTITATIVE):**
 See QUANTITATIVE CHEMICAL ANALYSIS
- ASSESSMENTS:**
 See CHARGES
- ASTATINE:**
 cations
 Cations of astatine in aqueous solutions; production and some characteristics. (B11). 465252
 fission products
 Evaluated neutron cross sections and resonance integrals of the fission products from $Z=32-37$. (A33). [Data] 493274
- ASTATINE COMPOUNDS:**
 photolysis
 Electron spin resonance spectra of the $^{14}\text{NF}_3^+$ and $^{15}\text{NF}_3^+$ radical cations. (B14, B12; Gamma radiation). 472513
 radiolysis
 Electron spin resonance spectra of the $^{14}\text{NF}_3^+$ and $^{15}\text{NF}_3^+$ radical cations. (B14, B12; Gamma radiation). 472513
- ASTATINE ISOTOPES:**
 See also ASTATINE 200; ASTATINE 202; ASTATINE 205; ASTATINE 206; ASTATINE 208; ASTATINE 210; ASTATINE 211; ASTATINE 212
- ASTATINE 200:**
 energy levels
 Nuclear data sheets for $A=200$. (A34). [Data] 465214
 nuclear properties
 Nuclear data sheets for $A=200$. (A34). [Data] 465214
- ASTATINE 202:**
 electron capture decay
 Nuclear spectroscopic studies. (A34; Summaries of research activities at Univ. of Tennessee). [Data] 486341
- ASTATINE 205:**
 compound nuclei
 Influence of angular momentum of the mass distribution width of heavy ion induced fission. (A33). 483775
- ASTATINE 206:**
 nuclear properties
 Nuclear data sheets for $A=206$. (A34). [Data] 465235
- ASTATINE 208:**
 multipole transitions
 On the ^{208}Rn decay. (A34). [Data] 486476
- ASTATINE 210:**
 auger effect
 Auger KMM-transition intensities in $\text{sub}(84)\text{sup}(210,211)\text{Po}$. (A34). 493358
- ASTATINE 211:**
 auger effect
 Auger KMM-transition intensities in $\text{sub}(84)\text{sup}(210,211)\text{Po}$. (A34). 493358
 labelled compounds
 The preparation of astatine labelled proteins using an electrophilic reaction. (B13). [Data] 468929

- proteins**
The labelling of proteins with ^{211}At using an acylation reaction. (B13). 490468
- ASTATINE 212:**
- alpha decay**
Nuclear field theory approach to alpha-decay. (A33). 478646
- ASTEROIDS:**
A bibliography of planetary geology principal investigators and their associates, 1976 - 1978. (A15). 478305
- brightness**
Opposition effect of the minor planet 17 Thetis. (A15). 485904
- ASTHMA:**
- diagnosis**
Roentgeno-radioisotope investigations in case of bronchial asthma. (C62). 482400
- papain**
Papain-induced asthma: diagnosis by skin test, RAST and bronchial provocation test. (C62). [Data] 482337
- respiration**
 ^{133}Xe in estimation of external respiration functions of bronchial asthma patients. (C62). 482334
- ASTROCYTOMAS:**
See *NEOPLASMS*
- ASTROLOY:**
- creep**
Regression analysis of creep-rupture data: a practical approach. (B22). 493925
Status of the minimum-commitment method for creep-rupture applications. (B22). 493992
- fatigue**
Effect of microstructure on crack propagation in heat resisting nickel alloys at elevated temperatures. (B22). 494047
- ruptures**
Comprehensive method of rupture data analysis with simplified models. (B22). 494032
- ASTRON:**
- ion rings**
Kinetic theory of ion ring compression. (A14). 467610
- kink instability**
Astron kink stability with a toroidal magnetic field. (A14). 467611
- stability**
Theory of astron equilibria. (A14). 467613
- ASTRONAUTS:**
- cosmic radiation**
Effects of high-LET neon (^{20}Ne) particle radiation on the brain, eyes and other head structures of the pocket mouse: a histological study. (C14). 482033
- ASTRONOMY:**
See also *GAMMA ASTRONOMY*; *RADIOASTRONOMY*
- gamma detection**
Gamma ray astronomy. (A15). 460146
- image processing**
Maximum-entropy image processing in gamma-ray astronomy. (A15). 462479
- infrared radiation**
Infrared astronomy from space. (A15). 460100
Infrared astronomy. (A15). 462416
Observational techniques in infrared astronomy. (A15). 460091
- infrared spectra**
Infrared astronomy. (A15). 462416
- manuals**
Burnham's celestial handbook. An observer's guide to the universe beyond the solar system. Volume 3. Pavo through Vulpecula. (A15). 475213
- troposphere**
Tropospheric limitations in phase and frequency coordinate measurements in astronomy. (A15, B33). 467801
- ASTROPHYSICS:**
The boundaries of the astronomical universe. (A15). 460108
European sounding-rocket, balloon and related research, with emphasis on experiments at high latitudes. Proceedings. (A15, B33). 485876
Theoretical physics and astrophysics. (A15). 492899
- convection**
Astrophysical problems involving magnetic fields and convection. (A15). 467880
- element abundance**
Cross section measurements and thermonuclear reaction rates for $^{48}\text{Ca}(p,\gamma)^{49}\text{Sc}$ and $^{48}\text{Ca}(p,n)^{48}\text{Sc}$. (A34, A15). 483942
- equations of motion**
Naked singularities, event horizons, and charged particles. (A15, A11). 485852
- extensive air showers**
High energy cosmic rays, particle physics and astrophysics. (A15, A21). 489521
- magnetic fields**
Astrophysical problems involving magnetic fields and convection. (A15). 467880
- plasma**
Plasmas physics and the astronomy. (A15). 492985
- relativistic range**
Relativistic astrophysics. Pt. 1. (A15). 483503
- research programs**
High energy astrophysics. (A15). 471801
- ultraviolet spectra**
UV and X-ray spectroscopy in astrophysics. (A15). 489471
- x-ray spectroscopy**
UV and X-ray spectroscopy in astrophysics. (A15). 489471
- ASYMPTOTIC CONDITIONS:**
See *BOUNDARY CONDITIONS*
- ASYMPTOTIC SOLUTIONS:**
- mellin transform**
On the asymptotic expansions of solutions of an nth order linear differential equation. (A11). 488689
- ATC DEVICES:**
- high-frequency heating**
Impurity radiation during RF heating in ATC. (A14). 464484
- icr heating**
ICRF heating and wave generation in the ATC tokamak. Part 1: wave generation, propagation and absorption. (A14). 485821
Impurity radiation during RF heating in ATC. (A14). 464484
Ion cyclotron heating by azimuthally rotating RF fields. (A14). 464519
- ATHEROSCLEROSIS:**
See *ARTERIOSCLEROSIS*
- ATLANTIC OCEAN:**
See also *CHESAPEAKE BAY*; *GULF OF MEXICO*; *NORTH SEA*
- hydrology**
Radioactive tracer study of the effect of swells on the sea bed. (B32). [Data] 462986
- meteorology**
Sea surface stability parameters. (C52). 480165
- natural radioactivity**
Radon evasion rates in the Atlantic and Pacific oceans as determined during the Geosecs program. (B33). 490881
- pollution**
Sea surface stability parameters. (C52). 480165
- tritium**
Tritium in the North Atlantic Ocean. Inventory, input and transfer into deep water. (B32). [Data] 490837
- ATMOSPHERES:**
(Not for concepts covered by EARTH ATMOSPHERE.)
See also *CHROMOSPHERE*; *PHOTOSPHERE*; *PLANETARY ATMOSPHERES*; *PLANETARY IONOSPHERES*; *PLANETARY MAGNETOSPHERES*; *SOLAR ATMOSPHERE*; *STELLAR ATMOSPHERES*; *STELLAR MAGNETOSPHERES*
- combustion**
Experimental study of hydrogen jet ignition and jet extinguishment. (C52, E35; LMFBR). 487610
- instability**
Instabilities in a penetrative atmosphere. (A15). 489605
- isotropy**
Exact solution of the problem of diffuse reflection for a combination of Rayleigh and isotropic scattering. (A15). 489457
- radiation transport**
Application of the Wiener-Hopf technique for a new representation of X- and Y-equations. (A15). 483463
Determination of the single-scattering albedo from polarization measurements of a Rayleigh atmosphere. (A15). 460127
Diffuse reflection and transmission in accordance with the phase function $3/4(1 + \cos^2\theta)$. (A15, B33). 483462
Exact solution of the problem of diffuse reflection and transmission in Rayleigh scattering by use of the Laplace transform and the theory of linear singular operators. (A15). 460045
Exact solution of equation for radiative transfer in semi-infinite Rayleigh scattering atmosphere using the Laplace transform and the Wiener-Hopf technique. (A15). 460044
Exact solution of the transport equation for radiative transfer with scattering albedo $\omega_0 < 1$ using the Laplace transform and the Wiener-Hopf technique and an expression of H-function. (A15). 460043
Exact solution of a problem in radiative transfer by the Laplace transform and the Wiener-Hopf technique when the incoming intensity at the surface is known. (A15). 483464
Probabilistic approach to radiative transfer in supersonic flows. (A15). 483540
- rayleigh scattering**
Exact solution of the problem of diffuse reflection for a combination of Rayleigh and isotropic scattering. (A15). 489457
Exact solution of the transport equation for imperfect Rayleigh scattering in a semi-infinite atmosphere. (A15). 489458
Solution of the equation of transfer for Rayleigh's phase function by the principle of invariance. (A15). 489539
- scattering**
Exact solution of a problem in radiative transfer by the Laplace transform and the Wiener-Hopf technique when the incoming intensity at the surface is known. (A15). 489459
On multi-region problems in radiative transfer. (A11, A15). 488587
- stratification**
On multi-region problems in radiative transfer. (A11, A15). 488587
- ATMOSPHERIC EXPLOSIONS:**
- radiation doses**
Estimation of maximum credible atmospheric radioactivity concentrations and dose rates from nuclear tests. (B33, C52). [Data] 465859
- ATMOSPHERIC EXPOSURE CHAMBERS:**
See *EXPOSURE CHAMBERS*
- ATMOSPHERIC PRECIPITATIONS:**
See also *RAIN*; *SNOW*
- atmospheric explosions**
Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). 463013
- chemical analysis**
Use of ion chromatography for trace analysis of MAP3S precipitation samples. (C52). 480135
- data processing**
Testing and documentation of programs used to transform climatological precipitation data to a geographically gridded format. (F30, C52). 480928

| | |
|--|--------|
| deposition | |
| Effect of using time-averaged precipitation for the estimation of wet deposition in a regional scale model. (C52). [Data] | 480044 |
| isotope ratio | |
| Environmental isotope data no. 6. World survey of isotope concentration in precipitation (1972-1975). (B32). [Data] | 465816 |
| radiation monitoring | |
| Environmental monitoring at Ames Laboratory: Calendar Year 1978. (B33, B32, C52). [Data] | 487165 |
| radioactivity | |
| Environmental monitoring at Ames Laboratory: Calendar Year 1978. (B33, B32, C52). [Data] | 487165 |
| Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] | 476480 |
| Quarterly ^{90}Sr deposition at world land sites. (B33, B31). [Data] | 476495 |
| Radioactivity from nuclear explosions in ground level air and precipitation in Sweden. Na(Tl)-measurements from mid-year 1972 to the end of 1975. (B33). [Data] | 476478 |
| Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). | 470006 |
| testing | |
| Testing and documentation of programs used to transform climatological precipitation data to a geographically gridded format. (F30, C52). | 480928 |
| time measurement | |
| Effect of using time-averaged precipitation for the estimation of wet deposition in a regional scale model. (C52). [Data] | 480044 |
| tritium | |
| Evidence of pulsed discharges of tritium from nuclear energy installations in Central European precipitation. (B33). [Data] | 490896 |
| ATOM COLLISIONS: | |
| See also ATOM-ATOM COLLISIONS; ATOM-MOLECULE COLLISIONS; ELECTRON-ATOM COLLISIONS; ION-ATOM COLLISIONS; PHOTON-ATOM COLLISIONS; POSITRON-ATOM COLLISIONS | |
| adiabatic approximation | |
| Diabatic and adiabatic representations for atomic collision processes. (A12). | 467189 |
| astrophysics | |
| Atomic and molecular processes in space- and astrophysics. (A15). | 467950 |
| adiabatic approximation | |
| Diabatic and adiabatic representations for atomic collision processes. (A12). | 467189 |
| elastic scattering | |
| Topics in bound-state dynamical processes: semiclassical eigenvalues, reactive scattering kernels and gas-surface scattering models. (A12). | 488744 |
| energy transfer | |
| Energy transfer in high-energy atom-oscillator collisions. (A12). | 477748 |
| Observation of luminescent spectra in low energy ion-neutral collisions. Progress report, June 1, 1978 - May 31, 1979. (A12; Summaries of research activities at Univ. Mississippi). | 474613 |
| Observation of luminescent spectra in low energy ion-neutral collisions. Progress report, June 1, 1978 - May 31, 1979. (A12; Summaries of research activities at Univ. Missouri). | 477773 |
| excited states | |
| Collision properties of highly excited atoms. (A12). | 467287 |
| feynman path integral | |
| The application of path integral to multi-channel heavy particle collisions. (A12). | 471415 |
| inelastic scattering | |
| Multiphonon theory of scattering of atoms from solid surfaces: Tetradic scattering approach. (A12). [Data] | 464050 |
| Noble-gas - solid-surface beam-scattering spectroscopy in the eV range. Nuclear channel, formal theory. (A12). | 485487 |
| Topics in bound-state dynamical processes: semiclassical eigenvalues, reactive scattering kernels and gas-surface scattering models. (A12). | 488744 |
| scattering amplitudes | |
| Scattering amplitudes and complex scaling. (A21, A12). | 468117 |
| sudden approximation | |
| On the coordinate representation sudden approximation for atom-surface scattering. (A12). | 488854 |
| surfaces | |
| On the coordinate representation sudden approximation for atom-surface scattering. (A12). | 488854 |
| ATOM TRANSPORT: | |
| isotope separation | |
| A compact tape transport station for on-line studies of short-lived nuclides. (E41). | 485049 |
| physical radiation effects | |
| Ion-beam-induced migration and its effect on concentration profiles. (A32, A13). | 493140 |
| ATOM-ATOM COLLISIONS: | |
| Bibliography of atomic and molecular excitation in heavy particle collisions, 1950 - 1975. (A14, A12). | |
| Bibliography of ionization and stripping in heavy particle collisions, 1950 - 1975. (A14, A12). | |
| Theoretical studies on various processes of heavy particle collisions. (A12). | |
| ***** | |
| Study of atomic collision processes in excited states of alkali atom by optical double resonance and level crossing. (A12). | |
| charge exchange | |
| Charge changing collisions of atom beams in alkali metal vapor. (A12). | 467268 |
| classical mechanics | |
| Current trends in atomic collision experiments. (A12). | 459743 |
| colliding beams | |
| Crossed molecular beam studies on the interaction potentials for $\text{Cl}^2\text{P} + \text{Xe}^1\text{S}$. (A12). | 459711 |
| de-excitation | |
| Ionization collisions between atoms. (A12). | 471393 |
| decoupling | |
| Angular momentum decoupling approximations and factorization in diatom - diatom scattering. (A12). | 485449 |
| depolarization | |
| Collisional depolarization of argon 2p levels selectively excited in a discharge by means of a tunable laser. (A12). | 471341 |
| differential cross sections | |
| Experimental determination of the potential for $\text{Na}(3^2\text{P}) + \text{Ar}$ from differential scattering cross sections. (A12). | 459727 |
| Observation of the orbiting backward peak in the differential cross section for $\text{Na}(^2\text{P})\text{-Hg}$ collisions. (A12). | 488793 |
| elastic scattering | |
| Contribution of orbiting to differential cross sections. (A12). | 467170 |
| An improved scattering potential for $\text{He}^*(2^2\text{S}) + \text{Ar}$. (A12). | 483219 |
| Observation of the orbiting backward peak in the differential cross section for $\text{Na}(^2\text{P})\text{-Hg}$ collisions. (A12). | 488793 |
| energy dependence | |
| Biorthonormal basis sets and the interaction between one-electron atoms. (A12). | 463974 |
| energy-level transitions | |
| Crossed-beam determination of energy dependence of fine-structure transitions in $\text{K}(4\text{P})\text{-He}$ collisions. (A12). | 492522 |
| excitation | |
| Measurement and calculation of integral electronic excitation cross sections for alkali-mercury-collision systems in the energy range between 10 and 1400 eV. (A12). | 483200 |
| excited states | |
| Semiquantal treatment of excited-atom - excited-atom collisions. (A12). | 488801 |
| Systematic trends in the inelastic cross sections and form factors for $n\text{l} \rightarrow n'\text{l}'$ direct collisional transitions. (A12). | 481020 |
| forbidden transitions | |
| Experimental determination of the $\text{Cs}(7\text{S})\text{-rare-gas}$ potential energy curves and of the 6S-7S collision-induced oscillator strengths. (A12). [Data] | 474653 |
| helium | |
| Experimental and theoretical study of the Penning ionisation of H atoms by He metastables. (A12). | 477797 |
| hydrogen | |
| Collisional de-excitation of 5-26 keV metastable hydrogen atoms. (A12). [Data] | 474623 |
| Experimental and theoretical study of the Penning ionisation of H atoms by He metastables. (A12). | 477797 |
| hydrogen isotopes | |
| Excitation transfer between atomic hydrogen isotopes. (A12). [Data] | 462122 |
| inelastic scattering | |
| Calculation and measurement of cross sections for rotational and vibrational excitation. (A12). | 467327 |
| integral cross sections | |
| Measurement and calculation of integral electronic excitation cross sections for alkali-mercury-collision systems in the energy range between 10 and 1400 eV. (A12). | 483200 |
| interaction range | |
| The study of short-range atom-molecule interaction forces based on differential scattering measurements. (A12). | 464017 |
| interatomic forces | |
| Crossed molecular beam studies on the interaction potentials for $\text{Cl}^2\text{P} + \text{Xe}^1\text{S}$. (A12). | 459711 |
| Effects of interatomic attraction on total cross sections in curve crossing collisions. (A12). | 477719 |
| Experimental determination of the potential for $\text{Na}(3^2\text{P}) + \text{Ar}$ from differential scattering cross sections. (A12). | 459727 |
| ionization | |
| Energy dependence of the ionization of highly excited atoms by collisions with excited atoms. (A12). | 464086 |
| Ionization collisions between atoms. (A12). | 471393 |
| Studies of ionization processes involving excited atoms or molecules. (A12). | 467311 |
| line widths | |
| Experimental determination of the $\text{Cs}(7\text{S})\text{-rare-gas}$ potential energy curves and of the 6S-7S collision-induced oscillator strengths. (A12). [Data] | 474653 |
| nuclear potential | |
| Model-potential method for the calculation of atom-rare-gas interactions: application to the Na-Ne system. (A12). | 492544 |
| optical models | |
| An improved scattering potential for $\text{He}^*(2^2\text{S}) + \text{Ar}$. (A12). | 483219 |
| orbital angular momentum | |
| Relation between low-energy electron scattering and l-changing collisions of Rydberg atoms. (A12). | 474591 |
| pair production | |
| Positrons from 1.4-GeV uranium-atom collisions. (A12, A11). [Data] | 464027 |
| pairing interactions | |
| Extended pairwise additivity: interactions of degenerate atoms with rare-gas atoms. (A12). | 488895 |
| penning effect | |
| Penning ionisation of atomic hydrogen by metastable neon atoms. (A12). | 483199 |

- potential energy**
Extended pairwise additivity: interactions of degenerate atoms with rare-gas atoms. (A12). 488895
- quantum mechanics**
Current trends in atomic collision experiments. (A12). 459743
- radiationless decay**
Helium 3 ^3S decay rates in a high-pressure afterglow. (A12, A14). 467245
- relaxation**
Method for measuring relaxation coefficients in atomic collisions. (A12). 462125
- research programs**
Thermal-energy scattering of atoms in high Rydberg states. Annual progress report, July 1, 1978 - June 30, 1979. (A12; Summaries of research activities at Oregon State Univ.). 488851
- resonance scattering**
Complex scaling: an introduction. (A12). 467160
- reviews**
Quasi-molecular model in heavy particle collisions. (A12). 485396
- rubidium**
Collisional properties of highly excited rubidium atoms. (A12). 488833
- rydberg correction**
Rydberg-atom-Rydberg-atom ionisation cross sections. (A12). 481043
- Theoretical model for the collision of high Rydberg atoms with neutral atoms or molecules. (A12). 492545
- scattering**
Line-shape theory and molecular dynamics in collision-induced light scattering. (A12). 467158
- Resonances in the scattering of atoms and molecules. (A12). 488919
- scattering amplitudes**
Collisions between atomic systems. (A12). 488804
- slowing-down**
The slowing down of atoms with kinetic energies of $W \leq 5\text{ eV}$ in noble gases. (A12). [Data] 467314
- variational methods**
A generalized R-matrix method for coupled equations. (A12). 471390
- ATOM-MOLECULE COLLISIONS:**
Bibliography of atomic and molecular excitation in heavy particle collisions, 1950 - 1975. (A14, A12). 464343
- Interaction between a high Rydberg atom (ion) and a neutral molecule. (A12). 467254
- charge exchange**
Quantum theory of exchange reactions: Use of nonorthogonal bases and coordinates. (A12). 485531
- chemical reaction kinetics**
Dynamics of the reaction $\text{H}_2(\text{He}, \text{H})\text{HeH}^+$. Influence of various forms of reactant energy on the total and differential cross section. (A12). 483238
- chemical reactions**
Generalized hyperbolic coordinates for collinear reactive scattering. (A12). 485494
- Multiple scattering theory. III. (A12). 483234
- Quantum theory of exchange reactions: Use of nonorthogonal bases and coordinates. (A12). 485531
- Quasiclassical smooth sampling study of threshold behaviour for the collinear reaction $\text{X} + \text{F}_2 \rightarrow \text{XF} + \text{F}(\text{X} = \text{Mu}, \text{H}, \text{D}, \text{T})$. (A12). 483153
- Reactive molecular collision calculations. (A12). 483151
- Sudden rotation calculations of the $\text{H} + \text{H}_2(\gamma=1, j=0)$ reaction. (A12, B12). 488772
- Topics in bound-state dynamical processes: semiclassical eigenvalues, reactive scattering kernels and gas-surface scattering models. (A12). 488744
- correlation functions**
Atom-polyatomic collisions: The role of pair correlation functions. (A12). 464045
- differential cross sections**
Rotational rainbows in inelastic atom-molecule differential cross sections. (A12). 477712
- dissociation**
Surface-hopping trajectory calculations of collision-induced dissociation processes with and without charge transfer. (A12). 483188
- distorted wave theory**
The rapid calculation of rotationally and vibrationally inelastic molecular collision cross sections. (A12). 483134
- Vibrational relaxation in He-CO and He-HF: a unitary distorted-wave approach. (A12). 459729
- dwba**
DWBA calculations of relaxation and kinetic cross sections. III. (A12). 467247
- energy transfer**
Collision induced intramolecular vibrational energy transfer in $^1\text{B}_2$ aniline. (A12). [Data] 463961
- An experimental study on molecular energy transfers. (A12). 467332
- Formal and computational studies of molecular collision dynamics. (A12; Coupled states, sudden approximation, relaxation, cross section matrix, inversion, separable potential). 467206
- Statistical model for rotationally and vibrationally inelastic collisions. (A12). 467195
- energy-level transitions**
Quantum mechanical study of $\text{F}(^2\text{P}_{\text{sub}}(1/2)) + \text{H}_2(j=0)$ quenching: the role of virtual ortho-para mixing. (A12). 488929
- excitation**
Statistical model for rotationally and vibrationally inelastic collisions. (A12). 467195
- Two-photon excitation of higher sodium levels and population transfer in a flame. (A12). 459726
- hydrogen**
Collisional de-excitation of 5-26 keV metastable hydrogen atoms. (A12). [Data] 474623
- inelastic scattering**
Anisotropy of the repulsive intermolecular potential from rotationally inelastic scattering. (A12). 467302
- Calculation and measurement of cross sections for rotational and vibrational excitation. (A12). 467327
- A computational study of the effect of the interaction potential for inelastic atom-molecule rotational scattering. (A12). 483154
- Non-reactive heavy particle collision calculations. (A12). 483158
- R-matrix propagation methods in inelastic and reactive collisions. (A12). 483196
- The rapid calculation of rotationally and vibrationally inelastic molecular collision cross sections. (A12). 483134
- Rotational rainbows in inelastic atom-molecule differential cross sections. (A12). 477712
- Theoretical analysis of inelastic molecular collisions: applications to atom-diatom systems relevant to laser operation. (A12; Cross sections, relaxation rates). 485440
- integral cross sections**
Scattering of thermal-energy hydrogen-atom beams by atoms and molecules. (A12). 467216
- The use of rotationally and orbitally adiabatic basis functions to calculate rotational excitation cross sections for atom-molecule collisions. (A12). 483202
- interaction range**
The study of short-range atom-molecule interaction forces based on differential scattering measurements. (A12). 464017
- ion pairs**
Ion-pair formation in some potassium-molecule collisions. Dependence on the vibrational energy. (A12). 459757
- Measurements of energy loss spectra in ion-pair formation reactions for the $\text{K} + \text{HCl}$ system. (A12). 459760
- Measurements of energy loss spectra in the ion-pair formation reaction for the $\text{K} + \text{HCl}$ system. (A12). 483207
- isotope effects**
Isotope shift in the bulge effect of molecular scattering. (A12). 488760
- monte carlo method**
Monte Carlo trajectory study of $\text{Ar} + \text{H}_2$ collisions: master-equation simulation of a 4500 K shock wave experiment with thermal rotation. (A12). 483224
- multiple scattering**
Multiple scattering theory. III. (A12). 483234
- potassium**
Application of atom-photon coincidence techniques to the determination of the differential cross section for excitation of $\text{K}(4^2\text{P})$ in low-energy $\text{K}-\text{N}_2$, CO collisions. (A12). [Data] 467253
- predissociation**
Surface-hopping trajectory calculations of collision-induced dissociation processes with and without charge transfer. (A12). 483188
- quantum mechanics**
Quantum mechanical study of $\text{F}(^2\text{P}_{\text{sub}}(1/2)) + \text{H}_2(j=0)$ quenching: the role of virtual ortho-para mixing. (A12). 488929
- reaction kinetics**
Geometric effects on complex formation in collinear atom-diatom collisions. (A12). 485442
- research programs**
Thermal-energy scattering of atoms in high Rydberg states. Annual progress report, July 1, 1978 - June 30, 1979. (A12; Summaries of research activities at Oregon State Univ.). 488851
- resonance scattering**
Determination of the van der Waals potential of $\text{H}-\text{HCl}$, $-\text{HBr}$ and $-\text{HI}$ from resolved orbiting resonance maxima in very low energy scattering. (A12). 483215
- Quantum resonance structure in the three-dimensional $\text{F} + \text{H}_2$ reaction. (A12). 483211
- rotational states**
A computational study of the effect of the interaction potential for inelastic atom-molecule rotational scattering. (A12). 483154
- Energy dependence of rotational cross sections. (A12). 477815
- rydberg correction**
Theoretical model for the collision of high Rydberg atoms with neutral atoms or molecules. (A12). 492545
- s matrix**
"Theory of collisions between an atom and a diatomic molecule in the body-fixed coordinate system". (A12). 463962
- Comment on "Theory of collisions between an atom and a diatomic molecule in the body-fixed coordinate system. (A12). 464079
- scattering**
Resonances in the scattering of atoms and molecules. (A12). 488919
- semiclassical approximation**
Quasiclassical smooth sampling study of threshold behaviour for the collinear reaction $\text{X} + \text{F}_2 \rightarrow \text{XF} + \text{F}(\text{X} = \text{Mu}, \text{H}, \text{D}, \text{T})$. (A12). 483153
- shock waves**
Monte Carlo trajectory study of $\text{Ar} + \text{H}_2$ collisions: master-equation simulation of a 4500 K shock wave experiment with thermal rotation. (A12). 483224
- sudden approximation**
Rotational energy sudden approximation in vibrationally inelastic collisions. (A12). [Data] 464082
- Sudden rotation calculations of the $\text{H} + \text{H}_2(\gamma=1, j=0)$ reaction. (A12, B12). 488772
- van der waals forces**
Determination of the van der Waals potential of $\text{H}-\text{HCl}$, $-\text{HBr}$ and $-\text{HI}$ from resolved orbiting resonance maxima in very low energy scattering. (A12). 483215

ATOMIC ABSORPTION SPECTROSCOPY:

See *ABSORPTION SPECTROSCOPY*

ATOMIC BEAM DIFFRACTION:

fourier analysis

On the Fourier components of the atom-surface scattering potential. (A13). 477913

ATOMIC BEAM SOURCES:

Development and technology. (A14). 489099

Section II. Development and technology. (A14, E12). 459852

breakdown

ARC snubbers for neutral beam sources. (A14). 485655

computer codes

QUARTZ: a numerical simulation of an asymmetric electrostatic accelerator. (A14). 467539

cryopumps

Radiation-induced degassing of cryopumps. (A14). 459908

direct energy converters

Selected topics on surface effects in fusion devices: neutral-beam injectors and beam-direct converters. (A14). 467583

high-frequency discharges

Microwave discharge source for the production of supersonic and free radical beams. (A12). 488815

ion sources

Negative ion based neutral beams for plasma heating. (A14). 459972

Negative ion production for neutral beam systems. (A14). 464352

magnetic fields

Positive-ion recovery scheme based on magnetic blocking of electrons. (E16). 491671

performance

Doublet III neutral beam injection system overview and status report. (A14). 467561

Intense Pulsed Ion Neutral Source (IPINS). (A14). 475117

Negative ion based neutral systems. (A10). 466994

PLT neutral beam injection systems. (A14). 459949

physical radiation effects

Selected topics on surface effects in fusion devices: neutral-beam injectors and beam-direct converters. (A14). 467583

power supplies

Finite element analysis of a twenty-five megawatt power tube and a high-energy water-cooled heat sink for fusion research. (A14). 459858

Lawrence Berkeley Laboratory power supply system for neutral beam source development. (A14). 459966

150-kV, 80-A solid state power supply for neutral beam injection. (A14). 467659

power transmission

Power flow along a 40-kV multimegawatt neutral beam line. (A14). 478121

research programs

Positive ion portion of the LBL/LLL Neutral Beam Program. (A14). 471707

Value engineering and the role of R and D in the neutral beam program. (E16). 494773

reviews

Multimegawatt neutral beams for tokamaks. (A14). 478098

The ORNL/PLT neutral beam lines. (A14). 474983

shielding

Shielding calculations for the TFTR neutral beam injectors. (A14). 492817

specifications

Design of a negative ion neutral beam system for TNS. (A14). 475000

Doublet III neutral beam injection system overview and status report. (A14). 467561

PLT neutral beam injection systems. (A14). 459949

voltage regulators

SCR switched capacitor voltage regulator for 150 kV neutral beam power supply. (A14). 464411

ATOMIC BEAMS:

fluorescence spectroscopy

Determination of neon metastable beam composition. (A12). [Data] 463966

metastable states

Determination of neon metastable beam composition. (A12). [Data] 463966

optical pumping

Investigation of dye laser excitation of atomic systems. (A12). 485382

photoemission

Resolution of photon-recoil structure of the 6573-A calcium line in an atomic beam with optical Ramsey fringes. (A12). 485399

photon collisions

Versatile user-oriented atomic and molecular beam apparatus for use with the National Synchrotron Light Source. (A10, E16). 471196

polarized beams

Cryogenic source "cryopol 2" of polarized hydrogen and deuterium atoms. (E16, A12). 491570

potassium

Generation of a fast alkali atomic beam by charge-transfer method for ion-pair formation studies. (A12). 477800

spectroscopy

High-resolution laser spectroscopy of atomic beams. (A12). 471348

spin orientation

Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681

ATOMIC BOMBS:

See *NUCLEAR WEAPONS*

ATOMIC CLOUDS:

See *RADIOACTIVE CLOUDS*

ATOMIC ENERGY AGREEMENTS:

Rules-of-trade for international nuclear commerce. (F42). 462046

sweden

Laws and conventions concerning nuclear energy in Sweden Jan 1, 1979. (F20). 480916

ATOMIC ENERGY LAW:

Atomic Energy Act and ordinances. (F22, F23). 477511

Introduction to nuclear energy law. (F20). 462007

federal republic of germany

German atomic energy law and radiation protection law. (F22, F25). 462009

japan

Amendment of Atomic Energy Basic Law and the development of Atomic Energy Administration. (F27). 477522

optimization

Present situation and development tendencies of atomic energy law in the Federal Republic of Germany. (F22). 488422

romania

The Romanian atomic energy act. (F22). 485217

switzerland

A 'YES' to the partial revision of the law on atomic energy. (F22; In Switzerland). 485215

Tenor of anti-nuclear initiative. (F22, F25). 485214

Text of revision of law on atomic energy. (F22; In Switzerland). 485216

ATOMIC ENERGY OF CANADA LTD:

See also *CHALK RIVER NUCLEAR LABS*

economic policy

Build your own Candu reactor. (E34; the marketing of Canadian reactors). 461735

ATOMIC ENERGY RESEARCH ESTABL:

See *AERE*

ATOMIC EXPLOSIONS:

See *NUCLEAR EXPLOSIONS*

ATOMIC FLUORESC. SPECTROSCOPY:

See *FLUORESCENCE SPECTROSCOPY*

ATOMIC FLUORESCENCE SPECTRO:

See *FLUORESCENCE SPECTROSCOPY*

ATOMIC IONS:

See also more specific entries as listed in the *INIS Thesaurus*.

absorption

Electronic stopping power of low-velocity ions Ions: C - Xe Targets H - Xe. (A32). 486176

auger effect

Auger transitions in singly and multiply ionized atoms. (A12). 467258

photoionization

Partial photoionization cross sections and radiative recombination rate coefficients for lithium-like ions. (A12). 488756

recombination

Partial photoionization cross sections and radiative recombination rate coefficients for lithium-like ions. (A12). 488756

ATOMIC MODELS:

See also *THOMAS-FERMI MODEL*

beam bunching

Evidence for the quantum nature of light. (A11). 492504

bound state

The Compton profile dependence on 'off-mass shell' and binding effects for bound electrons. (A12). 464062

collective model

Collective motion in heavy atoms. (A12). 471372

coulomb field

On the computation of eigenenergies for potentials with a Coulomb tail. (A12). 483132

density matrix

Limitation on the density-equation approach to many-electron problems. (A12). 485458

emission spectra

Evidence for the quantum nature of light. (A11). 492504

energy levels

Schrodinger local energies. (A12). 467199

hartree-fock method

Properties of single-term atomic states calculated in a variationally optimized-local-central-potential model. (A12). 467147

oscillation modes

Collective motion in heavy atoms. (A12). 471372

relativistic range

Relativistic effects in atomic structure calculations: an introduction. (A12). 485429

reviews

Introduction to the school program. (A10). 485263

self-consistent field

Pathological behavior of the open-shell restricted self-consistent-field equations. (A12). 464049

ATOMIC NUMBER:

corrections

Higher-order Z_1 corrections to the Bethe stopping-power formula. (C55). [Data] 463414

ATOMIC SHELLS:

See *ELECTRONIC STRUCTURE*

ATOMIC SHELLS (K):

See *K SHELL*

ATOMIC SHELLS (L):

See *L SHELL*

ATOMIC SHELLS (M):

See *M SHELL*

ATOMIC WEAPONS:

See *NUCLEAR WEAPONS*

ATOMKRAFTWERK MUEHLEBERG:

See *MUEHLEBERG REACTOR*

ATOMS:

See also *HADRONIC ATOMS; ISOELECTRONIC ATOMS; KAONIC ATOMS; MESIC ATOMS; MUONIC ATOMS; PIONIC ATOMS*
Atoms and molecules. (A12; Book).

- 485551
- Auger effect**
Auger transitions in singly and multiply ionized atoms. (A12). 467258
- Natural widths of atomic K and L levels, $K\alpha$ X-ray lines and several KLL Auger lines. (A12). 488856
- Nonrelativistic calculations of probabilities of Auger $KM_{sub}(1,2,3)M_{sub}(1,2,3)$ - transitions in the $18 \leq Z \leq 54$ light and intermediate mass atoms. (A12). 492513
- autoionization**
Ionization detection of single atoms by laser radiation through Rydberg states. (E41, B11). 495067
- Theory of atomic and molecular non-stationary states within the coordinate rotation method. (A12). 474636
- binding energy**
Theory of one electron binding energies including correlation, relativistic and radiative effects: Application to free atoms and metals. (A12). 474557
- conductor devices**
The interaction of an atom with electromagnetic vacuum fluctuations in the presence of a pair of perfectly conducting plates. (A12). 492516
- configuration interaction**
Accuracy, timing and general applicability of the MRD-CI method. (A12). 474564
- coulomb ionization**
Interaction of radiation with matter. (A12, A32). 474635
- elastic scattering**
Elastic and inelastic scattering of neutral atoms by a corrugated hard wall. (A13). 467356
- electromagnetic interactions**
The interaction of an atom with electromagnetic vacuum fluctuations in the presence of a pair of perfectly conducting plates. (A12). 492516
- electronic structure**
Analytic approximations of radial orbitals for multiconfigurational Hartree-Fock computations. III. (A12, F51). 483192
- Approximation of numerical orbitals by Slater functions. IV. (A12, F51). 483193
- Coupled-cluster approach to the many-body perturbation theory for open-shell systems. (A12; Bloch equation). 464035
- Generator of atomic excited terms from angular considerations. II. (A12, F51). 483191
- Generator of determinantal non-relativistic atomic states from spectroscopic notation, computation of matrix elements. I. (A12, F51). 483190
- Multiconfiguration Hartree-Fock method for atomic energy levels and transition probabilities. (A12). [Data] 492528
- Relativistic atomic structure calculations. (A12). 483170
- Study of exchange-correlation effects in inhomogeneous electronic systems. (A12). 471311
- Theory of the electronic structure of excited states in small systems with numerical applications to atomic states. (A12). 474556
- Use of spatial symmetry in atomic-integral calculations: an efficient permutational approach. (A12). [Data] 477812
- emission spectroscopy**
Highly-excited atoms. (A12). 477768
- energy levels**
Complex scaling: an introduction. (A12). 467160
- Coupled one- and two-photon resonances in three level atoms. (A12; Averages method, density matrix). 488808
- Matrix element evaluation in the unitary group approach to the electron correlation problem. (A12; Gelfand basis). 464084
- One-particle Green's function with multiconfiguration reference states. (A12; Superoperator hermicity). 463938
- Time dependence, complex scaling, and the calculation of resonances in many-electron systems. (A12; Wave functions, energies, widths). 467273
- energy-level transitions**
Experimental studies of atomic and molecular lifetimes. (A12). 474619
- Multiphotonic high resolution spectroscopy. (A12). 477717
- Radial transition integrals involving low or high effective quantum numbers in the Coulomb approximation. (A12). 471384
- Soluble semiclassical model for a one-dimensional $\Delta l=1$, $\Delta m=0$, decay. (A12). [Data] 474571
- excitation**
Interaction of radiation with matter. (A12, A32). 474635
- Ionization detection of single atoms by laser radiation through Rydberg states. (E41, B11). 495067
- Multiple photon resonances. (A11, A12). 471227
- Theory of resonance excitation of N-level atomic systems by strong coherent radiation. (A12). 477810
- excited states**
Correlations of excited electrons. (A12). 485441
- Fluorescence diagnostics in two-step laser excitation of high J atoms. (B13, B12). 476165
- Ordering of atomic energy levels in excited states. (A12). 485444
- Statistical broadening and population loss in strongly excited three-level systems. (A12). 467148
- expectation value**
On the systematic linear variation of atomic expectation values. (A12). 471324
- fluorescence**
Atomic radiative and radiationless yields for K and L shells. (A12). 488855
- fluorescence spectroscopy**
Single-atom detection with lasers. (A12, E41). 488796
- forbidden transitions**
Forbidden transitions in one- and two-electron atoms. (A12). 488868
- harmonic oscillator models**
Analytic coherent states for generalized potentials. (A12). 477799
- hyperfine structure**
Study of exchange-correlation effects in inhomogeneous electronic systems. (A12). 471311
- inelastic scattering**
Elastic and inelastic scattering of neutral atoms by a corrugated hard wall. (A13). 467356
- Theory of the one-phonon scattering of atoms from a hard corrugated surface. (A13). 467365
- information systems**
The "GAPHYOR" system: A computerized retrieval system of the properties of atoms, molecules, gases and plasmas. (F31). 482953
- inner-shell ionization**
Theory of atomic decay following inner-shell ionization. (A12). 485384
- m1-transitions**
Relativistic magnetic-dipole transitions in atoms, ions, and psions. (A12, A22). 477826
- nuclear decay**
Lower and upper bounds to the decay of the ground state one-electron density of helium-like systems. (A12). 488829
- numerical solution**
Accurate calculation of atomic properties by numerical methods. (A12). 488925
- p invariance**
Resonances in electron atom and molecule scattering. (A12). 488814
- Parity violation in atomic physics and neutral currents. (A21). 475530
- Parity violation effects in decay of autoionisable states of two-electron atoms and ions. (A12). 483194
- Podd effects in heavy atoms and a sign of the weak interaction constant. (A21). 493045
- perturbation theory**
A generalization of the Z expansion scheme in atoms. (A12). 467217
- photoelectric effect**
Collective effects, relaxation and localization of hole levels in atoms, molecules, solids, and adsorbates. (A12, A13; Review). 485553
- photoionization**
Extended two-level theory of the exponential index of multiphoton processes. (A12). 485437
- Photoionization of atoms. Progress report, 1 April 1978 - 30 March 1979. (A12; Summaries of research activities at the Univ. Nebraska). 467298
- photon-atom collisions**
Coupled one- and two-photon resonances in three level atoms. (A12; Averages method, density matrix). 488808
- physical properties**
Final summary report. (A12, B24; Summaries of research activities at Cornell Univ.). 464067
- Physical significance of employing self-consistent orbitals (SCO) with uniform long-range behavior. (A12). 459769
- Studies of the energy density functional approach. I. Kinetic Energy. (A12). 477827
- polarizability**
Core change polarisation effects in atomic systems. (A12). 471369
- radiation pressure**
Theory of atomic motion in a resonant electromagnetic wave. (A11, A12). 467026
- radiationless decay**
Atomic radiative and radiationless yields for K and L shells. (A12). 488855
- radiative corrections**
Radiative corrections for multielectron atom energy due to high order vacuum polarization. (A12). 485413
- rydberg correction**
Radial transition integrals involving low or high effective quantum numbers in the Coulomb approximation. (A12). 471384
- self-consistent field**
Accurate calculation of atomic properties by numerical methods. (A12). 488925
- Resonances in electron atom and molecule scattering. (A12). 488814
- slowing-down**
The spatial dependence of the energy spectrum of slowing down particles. (A31). 472118
- solvation**
Radiolysis studies on reactive intermediates. Technical progress report, November 1, 1977 - November 1, 1978. (B14). 462785
- spectra**
Analytic approximations of radial orbitals for multiconfigurational Hartree-Fock computations. III. (A12, F51). 483192
- Approximation of numerical orbitals by Slater functions. IV. (A12, F51). 483193
- Generator of atomic excited terms from angular considerations. II. (A12, F51). 483191
- Generator of determinantal non-relativistic atomic states from spectroscopic notation, computation of matrix elements. I. (A12, F51). 483190
- stark effect**
Complex scaling: an introduction. (A12). 467160
- t invariance**
Parity violation effects induced by neutral currents in atoms. (A12, A21). 477711

- variational methods**
Metric-constrained variation method for atoms and molecules. (A12). 471370
- virtual states**
Definition of virtual levels. (A12). [Data] 464087
- weak interactions**
On the effect of weak interaction in a heavy atom. (A33). 468347
- weak neutral currents**
Parity violation effects induced by neutral currents in atoms. (A12, A21). 477711
- x-ray spectra**
Natural widths of atomic K and L levels, $K\alpha$ X-ray lines and several KLL Auger lines. (A12). 488856
- ATP:**
isotopic exchange
The ^{32}P sub(i)-ATP isotope-exchange reaction catalyzed by the yeast valyl-tRNA synthetase. (B12). 484034
- ATP-ASE:**
biological radiation effects
The state of adenosine triphosphatase activity in normal and gamma irradiated cotton and maize seedlings. (C13). 465965
- labelling**
Photoaffinity labelling of a small protein component of a purified (Na⁺-K⁺)ATPase. (C21). 461103
- ATR REACTOR:**
control rod drives
Control rod drives for nuclear power plant. (E24). 477180
- control rod worths**
Power distribution and control element reactivity changes in Advanced Test Reactor due to beryllium reflector redesign. (E36). 495038
- neutron detectors**
Neutron detector assembly. (E24). 491796
- neutron reflectors**
Power distribution and control element reactivity changes in Advanced Test Reactor due to beryllium reflector redesign. (E36). 495038
- reactor cores**
Power distribution and control element reactivity changes in Advanced Test Reactor due to beryllium reflector redesign. (E36). 495038
- ATROPHY:**
radiation effects
Adjuvant radiation therapy for regional nodal metastases from malignant melanoma. A randomized, prospective study. (C15; Complications of local nodal irradiation). 469689
- ATTITUDES OF THE PUBLIC:**
See PUBLIC OPINION
- ATUCHA REACTOR:**
radiation monitoring
Tritium monitoring in PHWR and PTR power plants. The influence of non-uniform regulations. (C52). 494423
- ATWS:**
(Anticipated Transients Without Scram)
Approximate ATWS study to include parameter variations and equipment reliability in probabilistic accident analysis. (C52, E32; PWR). 487588
- LMFBR safety and sodium boiling.** (C52, E35). 461221
- heat transfer**
Anticipated transients without scram for light water reactors. (C52, E31, E32). 469944
- hydraulics**
Anticipated transients without scram for light water reactors. (C52, E31, E32). 469944
- risk analysis**
Probabilistic safety analysis IV. Final report. (C52, E31, E32; BWR; PWR). 487475
- simulation**
Experiment requirements for the study of anticipated transients with and without scram. (C52, E31, E32; BWR; PWR). 461194
- AUDITORY ORGANS:**
nerves
Central transport and distribution of labelled glutamic and aspartic acids to the cochlear nucleus in cats. (C30). 494350
- AUGER EFFECT:**
(Includes all particles, processes, and spectra associated with the auger effect.)
Photoionization cross sections and Auger rates calculated by many-body perturbation theory. (A12). 485471
- anisotropy**
Orientational effects in electron Auger spectroscopy of monocrystalline molybdenum. (A13). 464155
- electron correlation**
Correlation effects in Auger electron spectroscopy. (A12). 485495
- electron-atom collisions**
Auger-electron spectra ejected in the Ar Lsub(2,3)MM, the Kr Msub(4,5)NN, and the Xe Nsub(4,5)OO processes by electron impact. (A12). 471399
- hartree-fock method**
Application of the Hartree-Fock-Pauli approximation for investigation of atomic inner-shell electron energy characteristics. (A12). 477771
- ion beams**
Structure of Auger-electron spectra under irradiation of solids with medium energy ions. (A13; Be, Mg, Al, Si, Cu, Ni, Ge, GaAs targets). 464142
- AUGER ELECTRON SPECTROSCOPY:**
angular distribution
Experimental and theoretical study of the angular resolved Auger emission L_{23} of a single crystal target of aluminium excited by ion impact. (A13). 477919
- beam scanners**
Microprocessor-based scan control unit for electron and photon beams used in surface analysis. (E42). 488296
- collisions**
H⁺ and D⁺ sputtering of thin tantalum films in the energy range of 0.6 to 15 keV. (B22). 476301
- control equipment**
Microcomputer-based multiplexer for performing depth profiling with an Auger electron spectrometer. (A12). 474641
- inner-shell ionization**
Inner shell ionizations of light atoms by proton, alpha particle and heavy ion bombardments. (A12). 467218
- REVIEW**
Auger electron spectroscopy - Fundamentals - Experiments - Applications. (B12). 462715
- sample changers**
Versatile UHV sample transfer system. (A14, E42). 474980
- spatial resolution**
Improved depth resolution in Auger depth profiling of multilayered thin films by reactive ion sputtering. (A13). 477855
- AURORAE:**
Intensity enhancement on the wavelength of the HeI 5876 Å emission observed at high latitude. (B33). [Data] 484404
- Particle acceleration, spatial structure, and pulsations in the aurora. (B33). 484392
- absorption**
The relation between 10 to 80 keV electron precipitation observed at geosynchronous orbit and auroral radio absorption observed with riometers. (B33). 472885
- charged-particle precipitation**
Case study of the aurora, high-latitude ionosphere, and particle precipitation during near-steady state conditions. (B33). [Data] 465864
- Characteristics of trough region auroral patches and detached arcs observed by Isis 2. (B33). 490872
- doppler effect**
VHF double-peaked spectra at negative Doppler shifts in the morning sector of radio aurora. (B33). 481955
- electron precipitation**
Intensity ratio and center wavelengths of [O II] (7320 - 7330 Å) Line emissions. (B33). 490887
- Observed relation between magnetic field aligned electric fields and downward electron energy fluxes in the vicinity of auroral forms. (B33). [Data] 465846
- The relation between 10 to 80 keV electron precipitation observed at geosynchronous orbit and auroral radio absorption observed with riometers. (B33). 472885
- electrons**
Some characteristics of the parallel electric field acceleration of electrons over discrete auroral arcs as observed from two rocket flights. (B33). [Data] 484415
- emission spectra**
An indirect mechanism for the production of O(¹S) in the aurora. (B33). 472893
- Observations and interpretation of spectra and rapid time variations of type-B aurora. (B33). 469555
- energy transfer**
Energy transfer from excited N₂ and O₂ as a source of O(¹S) in the aurora. (B33). 472898
- ionosphere**
Turbulent transport and heating in the auroral plasma of the topside ionosphere. (B33, A14). [Data] 469560
- levels**
Measurements of the optical emission height profiles of medium intensity aurora. (B33). [Data] 481959
- long wave radiation**
Theory of electromagnetic waves on auroral field lines. (B33). 476490
- oxygen**
Energy transfer from excited N₂ and O₂ as a source of O(¹S) in the aurora. (B33). 472898
- An indirect mechanism for the production of O(¹S) in the aurora. (B33). 472893
- plasma instability**
Current convective instability in the diffuse Aurora. (B33). 490880
- pulsations**
Harmonic analysis of auroral pulsations. (B33). 472868
- spectrophotometry**
Intensity ratio and center wavelengths of [O II] (7320 - 7330 Å) Line emissions. (B33). 490887
- Observations and interpretation of spectra and rapid time variations of type-B aurora. (B33). 469555
- variations**
Auroral frequency in the 17th and 18th centuries and the 'Maunder minimum'. (B33, A15). 472891
- visible radiation**
Emission mechanism of auroral green line in the xenon glow discharge containing carbon-dioxide gas. (A12). 471406
- weather**
An auroral effect on the fair weather electric field. (B33). 463015
- AURORAL ELECTROJETS:**
See ELECTROJETS
- AURORAL HISS:**
earth magnetosphere
Electromagnetic plasma wave emissions from the auroral field lines. (B33). 476483
- levels**
On the amplification of VLF hiss. (B33). 481975

AURORAL OVAL:**charged-particle precipitation**

Observations of particles precipitating into detached arcs and patches equatorward of the auroral oval. (B33). 490894

coordinates

Comparison of auroral ovals from all-sky camera studies and from satellite photographs. (B33). 472867

AURORAL SUBSTORMS:

See **MAGNETIC BAYS**

AURORAL ZONES:

Eiscat. (B33; European incoherent scatter faciliing in the auroral zone). 484423

electric fields

Ulf waves in the auroral zone ionosphere and associated electron precipitation variations. (A15). [Data] 460109

scintillations

Evidence for sheet-like auroral ionospheric irregularities. (B33). 469572

AUSTENITIC STEELS:**acoustic emission testing**

Acoustic emission as a means for the early detection of critical defect in welded structures of an austenitic pressure-vessel-steel. (E17, B22). 470445

corrosion

Corrosion in austenitic stainless steels (Cr-Ni alloy S.S.) under chemical conditions. (B15). 481743

cracks

Determination of cracks in metastable austenitic alloys using a permeability-probe. (E17). 466563

creep

Interfacial microstructure and low stress, high temperature creep of an austenitic stainless steel. (B22, E22; 800°C). 465632

embrittlement

Neutron irradiation-induced embrittlement in type 316 and other austenitic steels and alloys. (B25). 484310

ferrite

Measurement of delta ferrite by magnetic saturation method. (B11). 478856

heat treatments

Time-Temperature-Sensitization diagram for VIRGO 14 SB steel. (B22). 479382

hot working

Effect of controlled forming conditions on properties of stainless steel heavy forgings. (B22). [Data] 462870

impurities

Surface segregation of boron in nitrogen-strengthened stainless steel. (B22). 490640

intergranular corrosion

Stress corrosion resistance of XM-19 stainless steel. (B15, B22, E31). 486782

Time-Temperature-Sensitization diagram for VIRGO 14 SB steel. (B22). 479382

microstructure

Interfacial microstructure and low stress, high temperature creep of an austenitic stainless steel. (B22, E22; 800°C). 465632

nitridation

Peculiarities of alloying and phase composition of the nitrided 03Kh17N8G5MFAB austenitic steel. (B22). 465565

oxidation

The oxidation behaviour of austenitic Fe-Cr-Ni alloys containing dispersed phases. (B15). [Data] 481748

physical radiation effects

Helium blistering at high irradiation doses. (B25). 472752

Modelling the radiation damage of fast reactor fuel cans due to helium. (B25). 484315

precipitation

Intergranular precipitation in austenitic alloys. (B22). 493945

quantitative chemical analysis

Measurement of delta ferrite by magnetic saturation method. (B11). 478856

segregation

Surface segregation of boron in nitrogen-strengthened stainless steel. (B22). 490640

stress analysis

Determination of cracks in metastable austenitic alloys using a permeability-probe. (E17). 466563

ultrasonic testing

Considerations about the practical application of the ultrasonic testing of austenitic welds. (E17, B22). 470443

Development of US-testing technique for austenitic weldments. (B22, E17). 460723

The ultrasonic inspection of austenitic welds. (E22). 463598

Ultrasonic techniques for in-service inspection of austenitic stainless steel welds at 200°C. (E35, E42, E17). 473972

Ultrasonic testing of austenitic welds by using controlled acoustic pulses. (E17). 461564

Ultrasonic time domain measurements of the depth of crack-like defects in ferritic and austenitic steels. (E22). 463594

welded joints

Influence of the cooling rate on the separation of delta-ferrite in austenite weld metal. (B21). 486855

Welding of the 45G17Yu3 steel with the 12Kh18N10T and the VSt3sp using powder wire. (B21). 465545

AUSTRALASIA:

See also **AUSTRALIA**; **QUEENSLAND**

AUSTRALIA:

See also **QUEENSLAND**

nuclear materials management

Uranium policy in Australia. (F12). 471115

uranium ores

Economic geology of uranium. Pine Creek Geosyncline, Northern Territory, Australia. (B31). [Data] 469518

Foreign exploration. (B31). 476471

AUSTRALIAN ATOM EN COMMISSION:

See **AAEC**

AUSTRALIAN ORGANIZATIONS:

See also **AAEC**

AUSTRALITES:

See **TEKTITES**

AUSTRIA:**atomic energy law**

Nuclear Law. (F20). 466921

background radiation

Exposure of the Austrian population to background radiation. (C22). 491063

Measurement of the natural radiation environment and its dependence on various parameters in Austria and assessment of the natural external and internal radiation dose of various population groups. (C15). 466173

geologic deposits

Neutron activation analysis of gold, silver, tungsten and antimony at the scheelite deposit of Felbertal (Austria) and their geological-genetical interpretation. (B11). 490287

hydrology

Models for the runoff from a glaciated catchment area using measurements of environmental isotope contents. (B32). [Data] 462985

miners

An analysis of the radiation exposure of workers in mine workings in the Salzburg and Upper Austrian districts of Austria. (C22). 491062

Radiation exposure of Austrian miners due to radon inhalation. (C22). 491056

urban populations

Methods for determining exposure to radiation from natural sources, with special reference to a survey of the population of Salzburg. (C22). 491060

AUTOCLAVES:**acoustic emission testing**

On-line safety monitoring of a large high pressure high temperature autoclave. (E17, E13, C52). 461577

AUTOIONIZATION:**ion-atom collisions**

Experimental evidence of MO autoionization in Li⁺+He collisions. (A12). 464112

AUTOMATION:**radiometric analysis**

Radioactivity measuring system of labelled biopolymers. (E41; automation). 474078

AUTOMOBILES:

See **VEHICLES**

AUTORADIOGRAPHS:

See **IMAGES**

AUTORADIOGRAPHY:

Autoradiographic localization of specifically bound ¹²⁵I-labeled follicle-stimulating hormone on spermatogonia of the rat testis. (C62). 470144

adrenal glands

High resolution radioautographic investigations into the mechanism of the lytic effect of 7,12-dimethylbenzanthracene on the zona reticularis cells of the rat adrenal cortex. (C31). 473125

biosynthesis

Synthesis of macromolecules by the epithelial surfaces of Schistosoma mansoni: an autoradiographic study. (C31). 487326

cell membranes

Formation of neuromuscular junctions in rat embryo cell cultures. (C31). 461130

cell nuclei

Quantitative autoradiographic study of intranuclear migration of newly synthesized HnRNP. (C31). 473133

central nervous system

Adaptation of the deoxyglucose method for use at cellular level: histological processing of the central nervous system for high resolution radio-autography. (C31). 463259

cerebellum

DNA synthesis during development and proliferation of glial cells in organotypic rat cerebellar culture. (C31). 484603

dielectric track detectors

The use of dielectric track detectors (DTD) for the determination of concentrations and spatial distribution of uranium and thorium in geological samples. (B11). [Data] 493538

dna replication

Cytochemical and autoradiographic analysis of transcription and replication in simian 7 CSA 7) adenovirus infected cells. (C31). 473128

epitheliomas

Evolution of experimental deciduomata in the rat: cellular filiation and morphogenesis. (C31). 473118

fat cells

Proliferation and lipid filling of rat adipose cells. A histoautoradiographic study. (C31). 473116

fibroblasts

¹²⁵I-EGF binding to cultured human fibroblasts: initial localization and fate of hormone determined by quantitative electron microscopic autoradiography. (C31). 461127

glucose

The uptake in vitro of dyes, monosaccharides and amino acids by the filarial worm Brugia pahangi. (C31). 487319

- intestines**
The fate of ^{59}Fe -labelled caecal microorganisms during intestinal mucosa absorption. Autoradiographic study in rabbit. (C31). 494361
- leucine**
The uptake in vitro of dyes, monosaccharides and amino acids by the filarial worm *Brugia pahangi*. (C31). 487319
- macacus**
Study of the distribution of methyl mercury (^{203}Hg) by whole body autoradiography of macaque monkeys (*Macaca irus*). (C31). 491066
- mitochondria**
High resolution radioautographic investigations into the mechanism of the ACTH-induced elongation of the half-life of rat zona fasciculata mitochondria. (C31). 473134
- nerve cells**
Axonal transport alteration and smooth endoplasmic reticulum modification in case of acrylamide induced neuropathy. (C31). 473115
- Radioautographic identification of central monoaminergic neurons after local micro-instillation of tritiated serotonin and norepinephrine in the cat. (C31). 463263
- Sleep and monoamines: differential radioautography of central neurons after systematic infection of tritiated 5-hydroxytryptophan or dihydroxy-phenylalanine. (C31). 491079
- nucleoproteins**
Spreading and visualization of newly-synthesized nucleoproteins in view of ultrastructural autoradiographic study. (C31). 473124
- olfactory bulbs**
A functional study of the rat olfactory bulb through autoradiography with ^{14}C -2-deoxyglucose. (C31). 461140
- oocytes**
The fate and role of macromolecules synthesized during mammalian oocyte meiotic maturation. 1. Autoradiographic topography of newly synthesized RNA and protein in the germinal vesicle of the pig and rabbit. (C31). 463265
- phospholipids**
Molecule transfer to neuroglia during phospholipid axonal transport: radioautographic study after ^3H -choline or ^3H -glycerol administration. (C31). 473117
- plutonium 239**
 ^{239}Pu autoradiography of mice bones. (C31). 494359
- polysaccharides**
Polysaccharides on microsporocytes and tapetum in *Rhoeo discolor*. Cytochemical and autoradiographic study (^3H -glucose). (C31). 469815
- proteins**
Autoradiographic study of the effect of cold on RNA and protein synthesis in the nuclei and tapetum of *Rhoeo discolor*. (C31). 473136
- Complementary radioautographic data on protein metabolism in mice *vis deferens* epithelium. (C31). 473138
- quality control**
Analysis of the quality of the autoradiographic image on solid state nuclear track detectors. (E12). 484830
- reliability**
A difference in [^{14}C]deoxyglucose autoradiographic patterns in striate cortex between *Macaca* and *Saimiri* monkeys following monocular stimulation. (C45). 484632
- rna**
Autoradiographic study of the effect of cold on RNA and protein synthesis in the nuclei and tapetum of *Rhoeo discolor*. (C31). 473136
- serotonin**
Serotonin localization in embryonic cells of chicken blastoderm: electron and photon microscope radioautography. (C31). 473122
- spinal cord**
Identification of dorsal root synaptic terminals on monkey ventral horn cells by electron microscopic autoradiography. (C31). 487323
- thyroid**
Cytochemical and histoautoradiographic study of thyroid follicle formation in the rat. (C31). 473135
- AUXILIARY WATER SYSTEMS:**
(For service water systems or other water systems not intended to be part of the cooling or moderating water system of a reactor.)
- contamination**
Investigation of generation of liquid radioactive wastes and possibilities to reduce their volume in NPP Paks Pt. 2. (E51). 463771
- reliability**
Common cause failure experience for reliability analysis and design guidelines in large nuclear breeder plants. (C52, E35). 487470
- AVAILABILITY:**
reactor safety
Digital integrated protection system. (C52, E24). 494431
- AVENA:**
See *OATS*
- AVR REACTOR:**
heat flux
Investigation of the effect of pebble inventory porosity fluctuations on the temperature fields in a HTGR type reactor core. (E33). [Data] 488099
- reactor operation**
Some important safety experiences made during operation of the AVR reactor. (E33). 491927
- specifications**
Gas Reactor International Cooperative Program. Interim report. Construction and operating experience of selected European Gas-Cooled Reactors. (E33). 491930
- AXEROPHTOL:**
See *VITAMIN A*
- AXIAL SYMMETRY:**
einstein field equations
Axially symmetric, static vacuum fields. (A11). 481005
- einstein-maxwell equations**
Exact solutions of the stationary axisymmetric Einstein-Maxwell equations. (A11). 467132
- AXIAL-VECTOR CURRENTS:**
low-energy theorem
Low-energy theorem for the weak axial-vector current in nuclear β -decay. (A33). 478659
- nuclear theory**
Hard pions and axial meson exchange currents in nuclear physics. (A33). 468332
- ward identity**
Uniqueness of the axial vector anomaly. (A11). 471253
- AXIOMATIC FIELD THEORY:**
See also *ALGEBRAIC FIELD THEORY*; *WIGHTMAN FIELD THEORY*
- effective range theory**
Theory of relativistic direct interaction. (A11). 477677
- group theory**
Algebraic conditions for a function on an Abelian group. (A11). 477625
- hadrons**
Axiomatic restrictions on scattering amplitudes of hadrons. (A21). 475607
- phi4-field theory**
Time-ordered products and Schwinger functions. (A21). 468049
- renormalization**
Remarks on Symanzik's approach to nonrenormalizable theories. (A11). 492478
- AXIOMATIC S-MATRIX THEORY:**
See *AXIOMATIC FIELD THEORY*
- AXIONS:**
coupling
Constraints on Higgs couplings from axionatics. (A21). 475624
- lifetime**
Prompt neutrino measurement. (A15, A22). 489616
- luminosity**
Astrophysical constraints on the axion mass and the number of quark flavors. (A15). [Data] 481303
- ====**
Astrophysical constraints on the axion mass and the number of quark flavors. (A15). [Data] 481303
- p invariance**
Enforcing strong T and P conservation. (A11). 485324
- particle discrimination**
Search for axion production in low-energy electron bremsstrahlung. (A22, A11). 489918
- particle sources**
Search for new particles at the alternating-gradient - synchrotron beam dump. (A22). 489936
- t invariance**
Enforcing strong T and P conservation. (A11). 485324
- AXONS:**
See *NERVE CELLS*
- AZIDES:**
(For inorganic compounds only. For organic azides, use *AZIDO COMPOUNDS*.)
- biological effects**
Inactivation of *Neurospora crassa* conidia by singlet molecular oxygen generated by a photosensitized reaction. (C12; uv radiation). 487196
- chemical reactions**
Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
- distribution functions**
Hydrazoic acid distribution coefficients in Purex processing. (B16). 472579
- nitrogen 15**
 ^{15}N NMR spectroscopy of carbon azides. (B12, A13). 486642
- radiolysis**
Radiation chemical decomposition of heavy metal solid azides. (B14). 479269
- AZIMUTHAL PINCH DEVICES (LINEA:**
See *LINEAR THETA PINCH DEVICES*
- AZINES:**
(Compounds that contain a six-membered heterocyclic ring containing one or more nitrogen atoms.)
- anisotropy**
Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
- charge density**
Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
- labelled compounds**
Spectra of individual molecular isotopes in an unseparated natural mixture. (B12). 460442
- laser isotope separation**
Production of isotopically pure molecules by dye laser excitation. (B12). 460443
- molecular orbital method**
Graphical estimative of diamagnetic anisotropy in some conjugated systems. (C11, A13). [Data] 487176
- AZO COMPOUNDS:**
See also *AZO DYES*
- chemical analysis**
Application of 8-hydroxyquinoline azo derivatives in analytical chemistry. (B11). 486514

AZO DYES:**chemical radiation effects**

Radiation stability of azo dyes in aqueous solutions. (B14). 479248

AZOLES:

See also *ANTIPYRINE; HISTAMINE; HISTIDINE; HYDROXYPROLINE; IMIDAZOLES; INDOLES; MELATONIN; MEXAMINE; NICOTINE; PROLINE; PVP; PYRAZOLES; SACCHARIN; SEROTONIN; THIAMINE; THIAZOLES; TRYPTAMINES; TRYPTOPHAN; VINBLASTINE*

AZULENE:**electron-molecule collisions**Low-energy electron-impact spectroscopy on bridged [10] annulenes and other 10 π -electron systems. (A12, B12). 483226**excitation**Low-energy electron-impact spectroscopy on bridged [10] annulenes and other 10 π -electron systems. (A12, B12). 483226**A1-1070 RESONANCES:****excitation**Electromagnetic mass difference of pions and the radial excitations of the ρ - A_1 - π system. (A21). 475596**particle identification**Analysis of the A_1 . (A21). 486003**particle production**Analysis of the A_1 . (A21). 486003Diffractive A_1 production by neutrinos. (A21). 489734**A2-1310 RESONANCES:****particle production**Diffractive production of the A_2 and its implications. (A21). 486018**B CODES:**

Extension to high frequencies of a program for calculating the angular distribution of nonrelativistic bremsstrahlung. (A12, F51). 483136

two-phase flow

Modeling of two-phase flow with thermal and mechanical non-equilibrium. (E31, E32). 466667

BABCOCK AND WILCOX STAND. REAC:See *BW STANDARD REACTOR***BABESIDAE:****immunity**

Babesia major: protection of intact calves against homologous challenge by the injection of irradiated piroplasms. (C42). 476641

irradiation

Protection of cattle against Babesia major by the inoculation of irradiated piroplasms. (C42, C12). [Data] 482134

BACILLUS:See also *BACILLUS MEGATERIUM; BACILLUS SUBTILIS; THIOBACILLUS FERROXIDANS***electron microscopy**

Factors to be considered in image interpretation. (C12). 484486

Image interpretation. (C11, C12). 484457

BACILLUS MEGATERIUM:**survival curves**

The interrelationship between pulse length and dose-rate within the pulse in the enhancement of anoxic damage in wet Bacillus megaterium spores irradiated with pulses of electrons. (C12). [Data] 461024

BACILLUS SUBTILIS:**biological radiation effects**

High let-irradiation of bacillus subtilis spores. (C12). 461022

Radial dependence of biological response of spores of Bacillus subtilis around tracks of heavy ions. (C12). 461012

biological repair

DNA repair in bacillus subtilis. (C12). 479795

life span

Accelerated aging in combined stress environments. (C12; Combined radiation and temperature effects on aging (survival) of Bacillus subtilis). 469609

BACKBENDING:

(The sudden increase of the moment of inertia of deformed nuclei at a critical angular momentum.)

spin

Spins, high spins, very high spins. (A33). 464981

vmi model

The microscopic foundation of our simple model for backbending-nuclei. (A33). 472202

BACKGROUND RADIATION:**austria**

Measurement of the natural radiation environment and its dependence on various parameters in Austria and assessment of the natural external and internal radiation dose of various population groups. (C15). [Data] 466173

biological radiation effects

Carcinogenetic hazard from natural background radiation in Japan. (C55, C15). 476755

carcinogenesis

Carcinogenetic hazard from natural background radiation in Japan. (C55, C15). 476755

energy spectra

Cosmic microwave background: present status and future prospects. (A15; Review). 478303

fluctuations

Fluctuations of the microwave background radiation. (A15). 478344

infrared radiation

Infrared astronomical background radiation. (A15). 460075

low level counting

Comments on 'The statistical interpretation of counting data from measurements of low-level radioactivity' by J.J. Donn and R.L. Wolke. (E41). 474031

microwave radiation

Hawking process and the cosmic microwave background in a steady state universe. (A15). 489594

origin

Cosmic microwave background: present status and future prospects. (A15; Review). 478303

polarization

Search for linear polarization of the cosmic background radiation. (A15). 467864

radiation doses

Survey of population exposure to background radiation in large cities on the Bulgarian Black-sea coast. (C55). 466362

radiation hazards

Population exposure to background radiation as a basis for setting up safety standards. (C55). 463448

radiation monitoring

Temporary increases in the background radiation at the National Swedish Institute of Radiation Protection. (C51). [Data] 461161

spectra

Background spectrum in the energy region up to 60 MeV. (A22). 483702

thermoluminescent dosimetry

Determination of background radiation at the Seibersdorf research institute, using thermoluminescence radiation. (C55). 491257

BACKSCATTERING:**chemical composition**

Material analysis by the nuclear backscattering method using cyclotron. (B11). 465256

computer codes

A Monte Carlo computer program for analysis of backscattering and sputtering in practical vacuum systems. (A13, A14). 488957

electric charges

Hydrogen backscattering on gold: Charge state and energy distribution (300 eV - 10 keV). (A13). [Data] 471505

filters

Wedge transmission data: effect of backscatter into monitor chamber. (C55). 473300

helium ionsBackscattering of H and He from W and WO₃. (A13). 467368**hydrogen ions 1 plus**Backscattering of H and He from W and WO₃. (A13). 467368**monte carlo method**

Determination of backscattering coefficients for low energy electrons in different gases. (C11, C55). [Data] 465892

A Monte Carlo computer program for analysis of backscattering and sputtering in practical vacuum systems. (A13, A14). 488957

optical models

A study of the spin/orbit term of the spherical optical model potential by means of large angle fast neutron elastic scattering angular distribution measurements. (A31). [Data] 462589

rutherford scattering

New technique for backscattering analysis. (A32, A12). [Data] 493137

BACON:See *MEAT***BACTERIA:**

See also *BACILLUS; BACILLUS MEGATERIUM; BACILLUS SUBTILIS; CLOSTRIDIUM BOTULINUM; COLIFORMS; CORYNEBACTERIUM PARVUM; ESCHERICHIA COLI; HAEMOPHILUS; LACTOBACILLUS; MENINGOCOCCUS; PROTEUS; PSEUDOMONAS; SALMONELLA TYPHIMURIUM; STAPHYLOCOCCUS; STREPTOCOCCUS; STREPTOMYCES; THIOBACILLUS FERROXIDANS*

biological effects

Biological effects of solvent extraction chemicals on aquatic organisms. (C52, C21). [Data] 469905

biomass

Microbial activity measurements by means of tritium-labelled substrates. (C31, C21). [Data] 491073

growth

Autoradiographic study of the localization and evolution of growth zones in bacterial colonies. (C31). 491081

luminescence

Yellow bioluminescence from a bacterial extract at low temperature. (A12, C11). 485482

population density

Nitrification in thermally altered black-water streams. (B32). [Data] 479669

post-irradiation therapy

Bacteriotherapy of acute radiation sickness. (C14). 484521

pyrogens

Effect of gamma rays on gram negative bacterial endotoxin. (C12). 469611

radioimmunoassay

Purification of antibodies to bacterial antigens by an immunoadsorbent and a method to quantify their reaction with insoluble bacterial targets. (C45). 484638

A solid phase radio immunoassay on hydrophobic membrane filters: detection of antibodies to gonococcal surface antigens. (C45; gonococcus). 461155

radiolysis

Radiation damage of purple membrane at low temperature. (B14). 484100

radioprotective substances

The effect of 1,4-diazabicyclo 2.2.2 octane on the radiosensitivity of bacteria. (C12). [Data] 472929

BACTERIAL SPORES:**biological radiation effects**

D-values of Bacillus pumilus spores on irradiated devices (inoculated product). (C12; Gamma radiation). 469619

gamma radiation

The effect of selected model compounds on the oxid radiation response of bacillus pumilus spores. (C12). 463070

- radiosensitivity**
 Bacterial spores: biophysical aspects of recovery from radiation injury. (C12; γ rays; Clostridium botulinum). [Data] 487193
 The effect of selected model compounds on the oxidic radiation response of bacillus pumilus spores. (C12). 463070
 Relation between radiation resistance and salt sensitivity of spores of five strains of Clostridium botulinum types A, B, and E. (C12). 469614
- ultraviolet radiation**
 Changes in ultraviolet resistance and photoproduct formation as early events in spore germination of Bacillus cereus T. (C12). 469612
- BACTERIOPHAGES:**
- biological radiation effects**
 The distinction between the roles of O_2 and of O_2^- in biological radiodamage. (C12). 463074
 The scrapie agent: evidence against its dependence for replication on intrinsic nucleic acid. (C11). [Data] 463031
 Suppression of polar effects of nonsense mutations by ultraviolet irradiation. (C12; Barteriophages). [Data] 479801
- fast neutrons**
 Double strand-breaks and DNA-to-protein cross-links induced by fast neutrons in bacteriophage DNA. (C12). [Data] 482010
- gene recombination**
 Recombination of bacteriophage phiX174 by the red function of bacteriophage lambda. (C12; Uv radiation). [Data] 461018
- genes**
 Radiochemical identification of the kil gene product of bacteriophage lambda. (C12, B11; 3H , ^{14}C , uv radiation, Escherichia coli). [Data] 494280
- growth**
 Study of the phage production efficiency in the bacterian lysis processes. (C11). 476529
- host-cell reactivation**
 Effect of bacteriophage C5 on ultraviolet light survival in Pseudomonas aeruginosa. (C12). 487192
 Repair mechanisms involved in the recovery of phase a from ultraviolet damage. (C12). 479790
- inactivation**
 Action spectra for the ultraviolet and visible light inactivation of phage T7: effect of host-cell reactivation. (C12). 461020
 Inactivation of bacteriophage lambda by combined X-ray and U.V.-light exposure. (C12). 490941
 Inactivation of phage phiX 174 by accelerated ions enhanced delta-ray effect by air layer in front of the samples. (C12; α particles and neon ions). [Data] 476542
- mutants**
 Genetical studies with radiation sensitive mutants of bacteriophage T4. (C12). 482008
- mutations**
 Suppression of polar effects of nonsense mutations by ultraviolet irradiation. (C12; Barteriophages). [Data] 479801
- nitrogen oxides**
 The distinction between the roles of O_2 and of O_2^- in biological radiodamage. (C12). 463074
- photoreactivation**
 Induction of mutations and repair in bacteriophages after photosensitizing action of 8-methoxypsoralen. (C12). 469615
- pseudomonas**
 Effect of bacteriophage C5 on ultraviolet light survival in Pseudomonas aeruginosa. (C12). 487192
- radiation induced mutants**
 Bacteriophage T4 v mutants with a slow rate of thymine dimer excision and a particular reactivation phenotype. (C12). 484485
 Induction of mutations and repair in bacteriophages after photosensitizing action of 8-methoxypsoralen. (C12). 469615
- survival curves**
 W-reactivation of phage lambda in recF, recL, uvrA, and uvrB mutants. (C12). 461021
- time dependence**
 Study of the phage production efficiency in the bacterian lysis processes. (C11). 476529
- BAG MODEL:**
 Analytic continued fraction theory for a class of confinement potentials. (A11, A21). 471298
 Charges, vortices and confinement. (A21). 468067
 Compound quarks and gluons and parton confinement (proposal of a different approach). (A21). 460188
 Confinement in Zsub(n) lattice gauge theories implies confinement in SU(n) lattice Higgs theories. (A21). 483639
 Instanton correction to some vacuum energy densities and the bag constant. (A21). 489844
 Mechanism for quark confinement. (A21; Coupling critical value, two dimensional model, quantum chromodynamics, merons). 475575
 Non-Abelian gauge theories and quark confinement. (A21; SU(N) group, electric and magnetic flux, phase transformation vortices). 460180
 Qualitative quark confinement. (A21, A11; Infrared limit, α symptotically free non-abelian gauge theories). 478458
 Quantum chromodynamics, asymptotic freedom, and the bag model. (A21). 478479
 Quark confinement and lattice calculation. (A21; Color fields, tube restriction, loop integral, Monte Carlo methods). 460220
 Review of developments in lattice gauge theory: extreme environments and duality transformations. (A11, A21). 459684
- baryon resonances**
 Radially excited baryons in the MIT bag model. (A21). 489741
- bound state**
 Limiting spectra from confining potentials. (A11). 488685
- boundary conditions**
 Sufficient condition for confinement of static quarks by a vortex condensation mechanism. (A21). 460194
- chiral symmetry**
 Chiral symmetry breaking in quark confining theories. (A21). 489748
 Confinement and chiral symmetry breaking in CPsup(n-1) models with quarks. (A21). 468035
- coupling**
 Multiquark states: Q^3 baryon resonances. (A21, A11). 486081
- deep inelastic scattering**
 Quark confinement in the infinite-momentum frame. (A11). 467133
- factorization**
 Confinement in two-dimensional models with factorization. (A21). 468091
- four-dimensional calculations**
 The problem of confinement: from two to four dimensions. (A21). 468017
- gauge invariance**
 Quark confinement in unusual environments. (A11). 474444
- infrared divergences**
 Confinement of three quarks by infrared singularities. (A11). 467130
- mass spectra**
 Limiting spectra from confining potentials. (A11). 488685
- nucleon-nucleon interactions**
 Tensor component of the two-nucleon interaction in the quark-bag model. (A21, A11). 475551
- photoproduction**
 Radiative transitions of baryons in the MIT bag. (A21). 486055
- quantum chromodynamics**
 Asymptotic freedom without guilt. (A11, A21). 474484
 Spin-dependent forces in a semiclassical model of confinement. (A21). 483617
- quantum field theory**
 Field theoretic bags. (A21). 481354
- quarks**
 Static potential energy of a heavy quark and anti-quark. (A21, A11). 460186
- reviews**
 The bag model of hadrons. (A21). 489887
 Bag model of quark confinement. (A21, A11). 489817
- structure functions**
 Structure functions in a translationally invariant approximation to the bag model. (A21, A11). [Data] 464774
- tensor forces**
 The problem of confinement: from two to four dimensions. (A21). 468017
- transition amplitudes**
 K^0 bold-arrow-left-right K-bar π^0 transition amplitude in the MIT bag model. (A21, A11). 486099
- two-dimensional calculations**
 Confinement in (1+1) dimensions and fermions. (A21). 489742
 Confinement in two-dimensional models with factorization. (A21). 468091
- upsilon-9500 resonances**
 Heavy quarks in a spherical bag. (A21, A11). 486088
- vacuum polarization**
 Screening versus confinement. (A21, A11). 489872
 Vacuum-polarization-corrected long-distance static quark-antiquark potential. (A11). 474501
- van der waals forces**
 Van der Waals-like forces between hadrons induced by color confining potentials. (A21). 487444
- yang-mills theory**
 Charge confinement by classical instabilities. (A11). 477628
- BALANCES:**
- cesium 137**
 A nucleonic weighing machine. (D22). 461467
- performance**
 Experience with installation and operation of digital electronic balances. (F41). 488490
- BALESCU THEORY:**
 See PRIGOGINE THEOREM
- BALLOONING INSTABILITY:**
 Ballooning modes in axisymmetric toroidal plasmas. (A14). 489170
 Ballooning modes and pressure limits in tokamaks. (A14). 459923
 Ballooning-instability boundaries for the circular tokamak. (A14). 483369
 Electromagnetic drift ballooning modes. (A14). 489349
 Maximum thermal energy density in magnetically confined plasmas. (A14). 489139
 Stability of tokamaks with elongated cross section. (A14). 489094
 Theory of ballooning trapped-electron mode overlapping many rational surfaces. (A14). 459978
 Unified approach to ballooning and trapped electron modes in tokamaks. (A14). 489249
- kinetic equations**
 Kinetic theory of ballooning instabilities. (A14). 489245
 Kinetic theory of ballooning instabilities and studies of tearing instabilities. (A14). 459935
- magnetohydrodynamics**
 Ideal-MHD stability of finite-beta plasmas. (A14). 462300
- plasma simulation**
 PEST code and high- β plasmas. (A14). 489129
- pressure dependence**
 MHD theory of ballooning modes applied to JET, and the effect of anisotropic pressure on ballooning modes. (A14). 460007

- variational methods**
Tearing, twisting and ballooning modes. (A14). 459980
- BALLOONS:**
High energy astrophysics in Europe, using balloons. (A15). 483587
- BALMER LINES:**
(Includes all aspects of the transitions associated with balmer lines.)
absorption spectra
Unusual Balmer lines in the spectrum of the M-type giant HD 139216. (A15). 475399
electron-molecule collisions
Doppler profile measurements of Balmer- α by electron impact on simple molecules. (B14). 472524
Doppler profile measurements of Balmer- α radiation by electron impact on H₂, D₂, CH₄ and other simple hydrocarbons. (B14). 468949
emission spectra
Unusual Balmer lines in the spectrum of the M-type giant HD 139216. (A15). 475399
fine structure
Anomalous shifts of hydrogen Balmer- α fine structure lines in helium. (A12). 471411
hydrogen
Optical thicknesses and degree of ionization of hydrogen in chromospheric flares of various importances. (A15). 462452
line broadening
Study of ion dynamic effects on Lyman and Balmer hydrogen lines. (A14). [Data] 471681
line widths
The width of Hsub(α) in an atomic hydrogen atmosphere. (A12). 477732
spectral shift
Anomalous shifts of hydrogen Balmer- α fine structure lines in helium. (A12). 471411
stark effect
Stark broadening of Hsub(β): wings calculation. (A12). 481032
- BALMER SPECTRA:**
See **BALMER LINES**
- BALTIC SEA:**
radioactivity
Cs-137 and Sr-90 concentration distribution in the Baltic Sea in summer of 1975. (B32). 479671
Strontium concentration in the Baltic Sea in 1974-1975 and its correlation with some hydrodynamic characteristics. (B32). 479670
- BANACH SPACE:**
See also **HILBERT SPACE**
series expansion
On the convergence of the Zassenhaus formula. (A11). 488547
- BANANA REGIME:**
(A specific mechanism of particle trapping in toroidal devices.)
ohm law
On the Ohm law in the banana regime for axial-symmetric toroidal systems of noncircular section. (A14). 483379
- BANANAS:**
radioactivity
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
- BAND THEORY:**
Magnetism and superconductivity in rare-earth ternary borides. (B22). 479390
energy-level transitions
Band strength factors with vibration rotation interaction. (A13). 471463
multiple scattering
Multiple-scattering approach to band theory. (A13). 488975
strength functions
Band strength factors with vibration rotation interaction. (A13). 471463
- BANGLADESH:**
gamma sources
Progress in food irradiation: Bangladesh. (C55, C43). 482260
nuclear power
Manpower development for the nuclear power programme in Bangladesh. (F61). 495308
- BARBITURATES:**
See also **PHENOBARBITAL**
- BARC:**
research programs
Progress report: Technical Physics Division. (F62). 482976
- BARDEEN-COOPER-SCHRIEFFER THEO:**
See **BCS THEORY**
- BARITE:**
quantitative chemical analysis
Rare earths in barites: distribution and effects on aqueous partitioning. (B31). [Data] 487086
thermoluminescence
Mechanism of thermoluminescence in natural barites. (A13, E41). [Data] 481145
- BARIUM:**
absorption spectroscopy
Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
activation analysis
Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
adsorption
Ion-exchange equilibria between montmorillonite and solutions of moderate-to-high ionic strength. (E52; Sodium and calcium forms of montmorillonite). [Data] 480897
Radionuclide sorption studies on abyssal red clays. (E52). [Data] 480874
- coster-kronig transitions**
L₁-L/sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730
- electric conductivity**
Hall effect and electrical conductivity in the polycrystalline hexagonal Ba-ferrite. (A13). 481137
- energy levels**
Lifetimes of excited states of barium and lanthanum and the modification of the Hanle effect by strong optical pumping. (A12). 481023
- fission products**
Evaluated neutron cross sections and resonance integrals of the fission products with $Z=51-56$. (A33). [Data] 493206
- hall effect**
Hall effect and electrical conductivity in the polycrystalline hexagonal Ba-ferrite. (A13). 481137
- hyperfine structure**
Investigations of nuclear charge radii and nuclear moments of neutron deficient Ba isotopes by high resolution laser spectroscopy. (A34). [Data] 483836
- ion-atom collisions**
Formation of metastable hydrogen atoms by charge exchange of fast protons in magnesium and barium vapors. (A12). 488875
Investigation of the spontaneous ionisation mechanisms in slow collisions of He⁺ with Ca and Ba, and of Ne⁺ with Ba. (A12). 477760
- L₁-L/sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730
- Single- and double-electron capture by 1-100-keV protons in collisions with magnesium and barium atoms. (A12). 477796
- monitoring**
Geologic studies to identify the source for high levels of radium and barium in illinois ground-water supplies: a preliminary report. Final report. (B32, C52). 487131
- muonic atoms**
Capture of muons in atoms. (A12; Lecture, atomic cascade). [Data] 492549
- neutron reactions**
Study of the systematics for (n,2n) reactions. (A34; 14.8 MeV). 460363
- photochemistry**
Laser induced fluorescence studies of the reactions of barium (¹S, ³D) and strontium (¹S, ³P) with halogenated methanes. (B12). 476082
- photoionization**
Studies of electron correlation in the photoionization process. (A12). 485514
- radionuclide migration**
Sorption and migration of radionuclides in geologic media. (E52, B31; Quartz monzonite, argillite, alluvium, and tufs). 471072
- shales**
Uranium reconnaissance survey of British Lower Palaeozoic shales: trace elements related to clay mineralogy. (B31). 479566
- BARIUM ALLOYS:**
See also **BARIUM BASE ALLOYS**
cleavage
Calculation of non-miscibility boundaries in the aluminium-barium rare earths ternary system. (B12; Rare earths: La, Ce, Pr, Nd, Sm, Gd, Ho, Er). 479079
elasticity
Electromechanical properties of Ssub(0.61)Basub(0.39)Nbsub(2)Osub(3) monocystals. (A13). 492557
- electronic structure**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
laves phases
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
raman effect
Temperature dependence of Raman scattering spectra of Basub(0.50)Srsb(0.50)Nbsub(2)Osub(6) crystal. (A13). 464157
- BARIUM BASE ALLOYS:**
cadmium alloys
Short order calculation in barium-cadmium and molybdenum-tungsten systems. (B22). 484195
phase diagrams
Systems of alkaline earth metal-chalcogen. (B12). 468796
- BARIUM BROMIDES:**
crystal structure
Refinement of the crystal structures of YbFCl, SmFCl, SrFBr, and BaFBr. (B12). [Data] 475926
- BARIUM CHLORIDES:**
phase diagrams
The Ba long F, Cl, MoO₄. (B12). 493728
- BARIUM COMPLEXES:**
free enthalpy
Electrochemical determination of the Gibb's energies of metal ion chelation, solid-solid phase transitions, and calcium isotope exchange reactions. (B12). 468750
- BARIUM COMPOUNDS:**
See also **BARITE**; **BARIUM BROMIDES**; **BARIUM CHLORIDES**; **BARIUM FLUORIDES**; **BARIUM HYDROXIDES**; **BARIUM OXIDES**; **BARIUM PHOSPHATES**; **BARIUM SULFATES**; **BARIUM SULFIDES**; **BARIUM TUNGSTATES**
absorption
EPR and optical absorption of the Ni²⁺ ions in complex tungstates and molybdates. (A13). 477933
chemical radiation effects
Use of crystallosoylates for studying γ -initiated reactions of free radicals. (B14). 479189

- chemical reactions**
Electrochemical determination of the Gibb's energies of metal ion chelation, solid - solid phase transitions, and calcium isotope exchange reactions. (B12). 468750
- crystal growth**
Peculiarities of barium-lithium niobate ($\text{Ba}_2\text{LiNb}_2\text{O}_7$) crystallization during crystal growth by the Czochralski method. (B12). 493737
- decomposition**
Characterization of $\text{Ba}_3\text{Re}_2\text{O}_9$ and $\text{Sr}_3\text{Re}_2\text{O}_9$. (B12). 468710
- electron spin resonance**
EPR and optical absorption of the Ni^{2+} ions in complex tungstates and molybdates. (A13). 477933
- ion exchange**
Sorption of rare and scattered elements on natural high siliceous zeolites. (B12). 478919
- physical properties**
Characterization of $\text{Ba}_3\text{Re}_2\text{O}_9$ and $\text{Sr}_3\text{Re}_2\text{O}_9$. (B12). 468710
- radioluminescence**
X-ray induced luminescence from BaTiO_3 . (B25). [Data] 479529
- sputtering**
Radio-frequency-sputtered tetragonal barium titanate films on silicon. (B15). 476192
- thermal degradation**
A comparative study of the influence of doping and irradiation on the thermal decomposition of barium bromate. (B14). 472533
- BARIUM FLUORIDES:**
- antiferromagnetism**
Magnetic and structural phase transitions in BaMnF_4 . (B22). 490569
- chemiluminescence**
Crossed-beam chemiluminescence. I. (A12). 483163
- crystal structure**
Refinement of the crystal structures of YbFCl , SmFCl , SrFBr , and BaFBr . (B12). [Data] 475926
- crystal-phase transformations**
Magnetic and structural phase transitions in BaMnF_4 . (B22). 490569
- electron collisions**
Inelastic electron scattering investigation of the complete 4d shell. (A12; 300 keV). 463986
- f centers**
F center in CaF_2 , SrF_2 , BaF_2 . (A13). 471513
- gadolinium ions**
Spectral diffusion in coherent effects of gadolinium in $\text{Pb}_2\text{Ge}_2\text{O}_{11}$, SrF_2 , $\beta\text{-PbF}_2$, BaF_2 crystals. (A13). 467402
- hyperfine structure**
Superhyperfine interaction of U^{3+} tetragonal center in a BaF_2 single crystal. (A13). 467442
- phase diagrams**
The Ba long F, Cl, MoO_4 . (B12). 493728
- Thermal stabilization of fluorite structures and rhombic yttrium fluoride in some fluoride systems. (B12). 468854**
- physical radiation effects**
Radiation damage and photochromism in the alkaline earth fluorides. (B25). [Data] 462938
- BARIUM HYDROXIDES:**
- adsorption**
Removal of ^{14}C -contaminated CO_2 from simulated LWR fuel reprocessing off-gas by utilizing the reaction between CO_2 and alkaline hydroxides in either slurry or solid form. (E51, B16). 480837
- BARIUM ISOTOPES:**
See also BARIUM 119; BARIUM 121; BARIUM 123; BARIUM 126; BARIUM 129; BARIUM 131; BARIUM 132; BARIUM 133; BARIUM 134; BARIUM 135; BARIUM 136; BARIUM 137; BARIUM 138; BARIUM 139; BARIUM 140; BARIUM 142; BARIUM 143; BARIUM 144; BARIUM 146
- beta-minus decay**
Half-life measurements of Rb, Sr, Y, Cs, Ba, La and Ce isotopes with $A < 91-98$ and $A < 142-149$. (A34). 486372
- interacting boson model**
A study of the Xe, Ba and Ce isotopes in the proton-neutron boson model. (A33). 490093
- nuclear radii**
Investigations of nuclear charge radii and nuclear moments of neutron deficient Ba isotopes by high resolution laser spectroscopy. (A34). [Data] 483836
- BARIUM OXIDES:**
- electron spin resonance**
Atomic Center interactions in BaO ; Al_2O_3 ; B_2O_3 glasses containing silver. (A13). [Data] 481144
- point defects**
Off-center impurity ions in crystals, as studied by the EPR method. (A13). 477942
- silver ions**
Atomic Center interactions in BaO ; Al_2O_3 ; B_2O_3 glasses containing silver. (A13). [Data] 481144
- stability**
Barium peroxide in the gaseous phase of the N_2O_4 reversible 2NO_2 reversible $2\text{NO} + \text{O}_2$ dissociating system. (B24). 490685
- vitrification**
IR spectra and structure of glasses in the $\text{BaO-WO}_3\text{-P}_2\text{O}_5$ system. (B12). 486639
- BARIUM PHOSPHATES:**
- hydrolysis**
Hydrolytic stability of fluorophosphate alloys in the $\text{Ba}(\text{PO}_3)_2\text{-MF}_2$ (M-Mg, Ca, Sr, Ba). (B12). 493672
- thermoluminescence**
Capture center ionization and ionic bond in some oxygen-containing luminophors. (A13). 474818
- BARIUM SULFATES:**
See also BARITE
- biomedical radiography**
The double contrast meal - new high density barium sulphate powders, and reply by James, W.B. (C61). 494501
- chemical preparation**
Production of some inorganic forms of ^{35}S at the Boris Kidric Institute. (B13). 486723
- shielding materials**
Radiation-absorbing material. (C54, E16, E22). 476733
- stomach**
The double contrast meal - new high density barium sulphate powders, and reply by James, W.B. (C61). 494501
- thermoluminescence**
Mechanism of thermoluminescence in natural barites. (A13, E41). [Data] 481145
- BARIUM SULFIDES:**
- chemical preparation**
Production of some inorganic forms of ^{35}S at the Boris Kidric Institute. (B13). 486723
- BARIUM TUNGSTATES:**
- crystal growth**
Growth of BaWO_4 needle crystals by KCl flux method. (B12). 465373
- BARIUM 119:**
- energy levels**
Nuclear data sheets for $A=119$. (A33). 478601
- energy-level transitions**
Nuclear data sheets for $A=119$. (A33). 478601
- BARIUM 121:**
- nuclear structure**
Nuclear data sheets for $A=121$. (A34). 486465
- BARIUM 123:**
- high spin states**
Investigation of the neutron-deficient isotope ^{123}Ba . (A34). 481617
- BARIUM 126:**
- high spin states**
Lifetime measurements of high spin states in ^{126}Ba . (A34). 486386
- hyperfine structure**
Laserspectroscopic studies of collective properties of neutron deficient Ba nuclei. (A12, A34). [Data] 485403
- spectral shift**
Laserspectroscopic studies of collective properties of neutron deficient Ba nuclei. (A12, A34). [Data] 485403
- BARIUM 129:**
- hyperfine structure**
Laserspectroscopic studies of collective properties of neutron deficient Ba nuclei. (A12, A34). [Data] 485403
- spectral shift**
Laserspectroscopic studies of collective properties of neutron deficient Ba nuclei. (A12, A34). [Data] 485403
- BARIUM 131:**
- energy-level transitions**
Estimation of radiation characteristics of 10 widely used radionuclides with complex decay scheme. (A33; ^{32}Mn , ^{75}Se , $\text{sup}(110\text{m})\text{Ag}$, ^{123}I , ^{131}Ba , ^{132}Cs , ^{151}Gd , ^{153}Sm , ^{187}Re , ^{233}U , $\text{Esub}(\gamma)=21-1434$ keV). 493154
- hyperfine structure**
Lattice location of Ba after (recoil) implantation into Ni and Fe. (A13, A34). 488937
- polarography**
Barium and radium radiopolarography. (B13). [Data] 493757
- BARIUM 132:**
- nuclear deformation**
Microscopic study of triaxiality in transition nuclei. (A34). 472252
- BARIUM 133:**
- electron capture decay**
Nuclear magnetic moment of the 161 keV state and other spectroscopic investigations of ^{133}Cs . (A34). 472306
- gamma spectra**
Gamma ray intensity standards for calibrating $\text{Ge}(\text{Li})$ detectors for the energy range 200-1700 KeV. (A32, E41). [Data] 475699
- hyperfine structure**
Lattice location of Ba after (recoil) implantation into Ni and Fe. (A13, A34). 488937
- BARIUM 134:**
- spectral shift**
Laser spectroscopy of ion beams. Isotope shifts. (A12). 477696
- BARIUM 135:**
- hyperfine structure**
Hyperfine-structure investigation in the 6s5d configuration of ^{135}Ba and ^{137}Ba . (A12). [Data] 471343
- Laserspectroscopic studies of collective properties of neutron deficient Ba nuclei. (A12, A34). [Data] 485403**
- isomeric nuclei**
 $\text{sup}(135\text{m})\text{Ba}$ yields in the $\text{sup}(133)\text{Cs}(\alpha, \text{pn})\text{sup}(135\text{m})\text{Ba}$ and $(\text{p}, \text{an}) \text{sup}(135\text{m})\text{Ba}$ reactions. (A34; MeV range 10-100). [Data] 493394
- metastable states**
Hyperfine-structure investigation in the 6s5d configuration of ^{135}Ba and ^{137}Ba . (A12). 481024
- nuclear reaction yield**
 $\text{sup}(135\text{m})\text{Ba}$ yields in the $\text{sup}(133)\text{Cs}(\alpha, \text{pn})\text{sup}(135\text{m})\text{Ba}$ and $(\text{p}, \text{an}) \text{sup}(135\text{m})\text{Ba}$ reactions. (A34; MeV range 10-100). [Data] 493394
- quadrupole moments**
Hyperfine-structure investigation in the 6s5d configuration of ^{135}Ba and ^{137}Ba . (A12). [Data] 471343
- spectral shift**
Laserspectroscopic studies of collective properties of neutron deficient Ba nuclei. (A12, A34). [Data] 485403

BARIUM 136:

- energy levels
Nuclear data sheets for A = 136. (A34). 486440
- negative energy states
Magnetic moment of the 2140.2 keV 5⁻ state in ¹³⁶Ba. (A34). 483908
- nuclear magnetic moments
Magnetic moment of the 2140.2 keV 5⁻ state in ¹³⁶Ba. (A34). 483908
- nuclear structure
Nuclear data sheets for A = 136. (A34). 486440
- spectral shift
Laser spectroscopy of ion beams. Isotope shifts. (A12). 477696

BARIUM 137:

- hyperfine structure
Hyperfine-structure investigation in the 6s5d configuration of ¹³⁷Ba and ¹³⁷Ba. (A12). [Data] 471343
- metastable states
Hyperfine-structure investigation in the 6s5d configuration of ¹³⁷Ba and ¹³⁷Ba. (A12). 481024
- quadrupole moments
Hyperfine-structure investigation in the 6s5d configuration of ¹³⁷Ba and ¹³⁷Ba. (A12). [Data] 471343
- radiocardiography
Study of the cardiovascular system. (C62). 482424

BARIUM 138:

- spectral shift
Laser spectroscopy of ion beams. Isotope shifts. (A12). 477696

BARIUM 138 TARGET:

- deuteron reactions
Radiative capture of deuterons in Ba and Au. (A34). [Data] 486405
- helium 3 reactions
The (³He,n) reaction on N = 82 targets and even isotopes of neodymium. (A34). 483821
- neutron reactions
Verifications of the Lane-Lynn theory of direct neutron capture. (A33). 468366
- 14.7-MeV neutron capture cross-section measurements with activation technique. (A31). [Data] 478577

BARIUM 139:

- fission yield
Fractional independent yields of ¹³⁹Ba and ¹⁴²La from thermal-neutron-induced fission of ²⁴⁰Cf. (A34). 490205

BARIUM 140:

- fission yield
Possible viscosity effects in neutron-induced fission of ²³²Th and ²³⁸U. (A34; Yields). [Data] 490166
- gamma decay
Recommended normalization in Ba 140 decay. (A34). 472309
- radiation monitoring
Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] 476480
- Results of environmental radioactivity measurements in the member states of the European Community for air, deposition, water, milk, 1975-1976. (B33, B32, C43). [Data] 460906

BARIUM 142:

- excited states
Gamma-gamma angular correlation measurements on neutron-rich Ba isotopes with even mass number. (A34). 465147

BARIUM 143:

- beta spectra
Experimental beta-decay energies of several neutron-rich nuclides with mass number 131 ≤ A ≤ 146. (A34). [Data] 468506
- energy levels
Nuclear spectroscopy of neutron-rich A = 143 nuclei. (A34). [Data] 472297

BARIUM 144:

- excited states
Gamma-gamma angular correlation measurements on neutron-rich Ba isotopes with even mass number. (A34). 465147

BARIUM 146:

- beta spectra
Experimental beta-decay energies of several neutron-rich nuclides with mass number 131 ≤ A ≤ 146. (A34). [Data] 468506

BARLEY:

- carbohydrates
The Svaloev protein quality breeding programme. (C41; barley). 463283
- gamma radiation
The interaction of oxygen, radiation exposure and seed water content on γ-irradiated barley seeds. (C13). 494285
- Minimum gamma-radiation exposure and oxygen concentration to produce post-irradiation oxygen-enhancement of damage in barley seeds. (C13). 494286
- genetic radiation effects
Comparative mutagenicity of sodium azide alone and in combination with ethyl methane sulphonate and gamma radiation in *Hordeum vulgare*. (C41). 469846
- nitrogen
Nitrogen incorporation and yield response of a high-lysine and a normal barley. (C41). [Data] 463289
- Possibilities and limitations of the ¹⁴N(d,pC)¹⁵N technique for measurements of nitrogen depth distributions in single seeds of wheat and barley. (C41). 479981
- polypeptides
Barley endosperm proteins. In vitro synthesis, transport and peptide mapping. (C45). 463340
- proteins
Improved protein mutants selected from barley after multiple EMS and X-ray treatments. (C41). [Data] 463315

radiation injuries

- Differential modification of oxic and anoxic components of radiation damage by t-butanol, an .OH radical scavenger. (C13). 463077

radiosensitivity

- A general description of barley coleoptile growth behaviour under low LET radiations. (C13). [Data] 463095

roots

- Plant injection and leaf smearing techniques for root distribution studies in pearl-millet (*Pennisetum typhoides* Stapf.) and barley (*Hordeum vulgare* Linn.) using ¹³⁴Cs. (C31). 463269

tritium

- Incorporation of tritium in grain plants. (C21). [Data] 463232

BARNWELL FUEL PROCESSING PLANT:**chemical analysis**

- Computer controlled quality of analytical measurements. (B11, B16). 486495

head end processes

- Verification of the Barnwell Nuclear Fuel Plant (BNFP) mechanical headend design. (B16). 460651

radioactive waste storage

- Description of Allied-General Nuclear Services on-site solid waste storage concepts. (E52, B16). 474285

safeguards

- Development of an advanced safeguards system as a proliferation deterrent. (F41; Computerized control; physical protection; safeguards coordination). 462033

BARSEBAECK-2 REACTOR:**reactor safety**

- A critical review of the Barsebaeck risk assessment study (DS-I-1978-1) performed by MHB Technical Associates. (C52). 491131
- Reactor safety analysis of the Barsebaeck 2 BWR plant. (C52). 469913

BARYON NUMBER:**cpt theorem**

- Elementary examples of baryon number generation. (A11). 467135

unitarity

- Elementary examples of baryon number generation. (A11). 467135

BARYON OCTETS:**bound state**

- Do bound color octet states of liberated quarks exist. (A21). 475606

quarks

- Do bound color octet states of liberated quarks exist. (A21). 475606

structure functions

- On behaviour of hadron structure functions at x → 1. (A21). 464800

BARYON REACTIONS:

See also ANTINUCLEON REACTIONS; ANTIPROTON REACTIONS; FAST FISSION; NEUTRON REACTIONS; NUCLEON REACTIONS; PROTON REACTIONS; THERMAL FISSION

BARYON RESONANCES:

- See also CHARMED BARYON RESONANCES; D* RESONANCES; DELTA-1236 RESONANCES; DELTA-1910 RESONANCES; LAMBDA-2250 RESONANCES; N* RESONANCES; N-1520 RESONANCES; N-1688 RESONANCES; SIGMA-1385 RESONANCES; SIGMA-1580 RESONANCES; SIGMA-1660 RESONANCES; SIGMA-1670 RESONANCES; SIGMA-2455 RESONANCES; Y* RESONANCES; Z* RESONANCES
- Dibaryon resonances: do they exist. (A22). 489965
- The discovery of resonances in multibaryon systems. Pt. 3. A p-resonances. (A33, A34). 468410
- Experimental review of strange dibaryons. (A21). 489852
- excited states
Radially excited baryons in the MIT bag model. (A21). 489741
- hadronic particle decay
Search for high-mass resonances and study of neutral strange particle production in anti p p interactions at 14.75 GeV/c. (A22; Cross sections, rapidity, Feynman scaling, transverse momentum). [Data] 478548

mass

- A QCD relation between electromagnetic mass differences of charmed meson and strange baryons. (A21). 475546

mass spectra

- Multiquark states: Q³ baryon resonances. (A21, A11). 486081

neutron reactions

- The discovery of resonances in multibaryon systems. (A22). 460243

partial waves

- Angular dependence of proton polarization in the reaction γd → pn and a partial-wave analysis of possible dibaryon resonances. (A22). 493106

particle production

- Angular dependence of proton polarization in the reaction γd → pn and a partial-wave analysis of possible dibaryon resonances. (A22). 493106

- K⁻d interactions in the energy range between 1500 and 1600 MeV. (A22; Angular distribution). 468181

- pp phase shifts and dibaryon resonances. (A22, E16). 489959

- Pure spin total cross sections. (A22). [Data] 475684

photoproduction

- Baryon resonances and electromagnetic couplings. (A21). [Data] 472033

- Radiative transitions of baryons in the MIT bag. (A21). 486055

pion minus reactions

- The discovery of resonances in multibaryon systems. (A22). 460243

regge trajectories

- Factorisation of Regge slopes for multi-quark hadrons. (A21). 468013

resonance scattering

- pp phase shifts and dibaryon resonances. (A22, E16). 489959

- scattering amplitudes**
- Baryon resonances and electromagnetic couplings. (A21). [Data] 472033
- BARYON-BARYON INTERACTIONS:**
See also ANTI-PROTON-NEUTRON INTERACTION; NEUTRON-NEUTRON INTERACTIONS; NUCLEON-ANTINUCLEON INTERACTION; NUCLEON-HYPERON INTERACTIONS; NUCLEON-NUCLEON INTERACTIONS; PROTON-ANTI-PROTON INTERACTIONS; PROTON-NEUTRON INTERACTIONS; PROTON-PROTON INTERACTIONS
- elastic scattering**
- Asymptotic theorems and polarization phenomena. (A21). 489900
- inelastic scattering**
- Asymptotic theorems and polarization phenomena. (A21). 489900
- quark model**
- Constituent rearrangement diagrams, quark counting and duality. (A21). 462553
- string models**
- Topological structure and selective interactions of hadrons. (A21). 468081
- BARYON-EXCHANGE MODELS:**
- baryon-baryon interactions**
- Peripheral features of hadron reactions. (A21). 468080
- regge trajectories**
- Baryon exchange in dual unitarisation - the f and ω -trajectories. (A21). 462552
- Exotic baryonium exchanges. (A21). 460202
- BARYONIUM:**
- Baryonium and the four-body problem. (A21). 468023
- Baryonium as baryon antibaryon bound states and resonances. (A21). 489903
- Baryoniums and related states. (A21). 489751
- Estimate of ω , ϕ and baryonium mixing at t approximately 0. (A21). 471998
- Exotic baryonium exchanges. (A21). 489843
- Experimental review on baryonium candidates. (A21). 489839
- Level order of the N anti N spectrum in potential models. (A21; Isospin natural parity). 464779
- Multiquark states: further possibilities of observation. (A21). 489789
- Summary talk - hadronic interaction session. (A21). 489785
- baryon-baryon interactions**
- The baryon antibaryon description of baryonium. (A21). 481425
- coupled channel theory**
- On the displacement of the baryonium level due to three body annihilation. (A33). 493239
- decay**
- Decay properties of baryonia. (A22). [Data] 478547
- exchange degeneracy**
- Multiquark states and the breaking of exchange degeneracy. (A21). 483643
- isospin**
- Isospin and baryonium. (A21). 493077
- mass spectra**
- A spectrum of baryonia. (A21). [Data] 462549
- nucleon-nucleon potential**
- What do the baryonium data tell us about the nucleon-antinucleon potential. (A33). 472165
- particle production**
- Polarization experiments: a theoretical review. (A21). 464802
- quantum numbers**
- SU(4) Clebsch - Gordan coefficients for the formation of baryonium and exotic baryons. (A21). 478399
- quark model**
- Diquark constituents of baryons and baryonium. (A21). 489797
- regge trajectories**
- Cryptoexotic states of the four-quark system. (A21). 472026
- Dynamical relationship between baryon structure functions and baryonium trajectories. (A21). [Data] 464808
- string models**
- Dual amplitudes of baryonium interaction. (A11, A21). 463903
- BARYONS:**
See also more specific entries as listed in the INIS Thesaurus.
- asymmetry**
- Baryon asymmetry in the very early universe. (A15). 478230
- baryon resonances**
- Baryonium as baryon antibaryon bound states and resonances. (A21). 481426
- bound state**
- Baryonium as baryon antibaryon bound states and resonances. (A21). 481426
- cosmological models**
- Light-element abundances, galactic evolution, and the universal baryon density. (A15). 478294
- excited states**
- Positive-parity excited baryons in a quark model with hyperfine interactions. (A21, A11). 486058
- magnetic moments**
- Comment on the magnetic moments of baryons in the broken-SU(6) -symmetry model. (A21). 475636
- mass spectra**
- Diquark constituents of baryons and baryonium. (A21). 489797
- Light-quark mass spectrum in quantum chromodynamics. (A21, A11). 486073
- multiple production**
- Hadron interactions of cosmic radiation with energy higher than 10^{15} eV. Part I (Brazil-Japan collaboration). (A15). 471757
- pair production**
- Baryon pair production with large decay Q -value. (A15, A21). 489488
- particle multiplets**
- Filling U(4) multiplets by hadrons. (A21). 468094
- particle production**
- Cosmological production of baryons. (A15). 478361
- Fragmentation processes in the quark combinatorics. (A21). 493042
- Quantum-chromodynamic predictions for high- p /sub T / baryon production. (A21). 489848
- Some first results from the Mark II at SPEAR. (A22; Branching ratio, cross sections). 493093
- quark model**
- Evidence for a baryon core. (A21). 464826
- Fragmentation processes in the quark combinatorics. (A21). 493042
- regge trajectories**
- Semiclassical approach to the quark-string model and the hadron spectrum. II. Baryons and exotic hadrons. (A21). 464818
- second-class currents**
- Sum rules for baryon form factors of second-class currents. (A21). 468095
- spatial distribution**
- Baryon asymmetry in the very early universe. (A21, A15; Three-stage mechanism). [Data] 489768
- structure functions**
- Dynamical relationship between baryon structure functions and baryonium trajectories. (A21). [Data] 464808
- universe**
- Baryon asymmetry in the very early universe. (A21, A15; Three-stage mechanism). [Data] 489768
- weak hadronic decay**
- Weak hadronic decays of uncharmed baryons in SU(3)-dynamical considerations. (A22). 489987
- BASALT:**
- Evaluation of basalt flows as a waste isolation media. (E52, B31). 461954
- adsorption**
- Controlled sample program publication No. 1: characterization of rock samples. (E52; Interlaboratory methodology comparison for measuring radionuclide distribution in rocks). 461934
- Studies of actinide sorption on selected geologic materials. (C52). [Data] 480148
- Studies of actinide sorption on selected geologic materials. (E52, B31; Quartz monzonite). 480898
- Waste isolation safety assessment program. Controlled sample program publication number 2: interlaboratory comparison of batch K_d values. (C52, B31). [Data] 491193
- age estimation**
- Disequilibrium ^{230}Th - ^{238}U in lava from Chaine des Puys. (B31). 472828
- chemical composition**
- Basalt alteration and basalt-waste interaction in the Pasco Basin of Washington State. Final report. (E52, B31). [Data] 466887
- Geology along topographic profile for near-surface test facility. (E52, B31). 466890
- Trace element and strontium isotope characteristics of volcanic rocks from Isla Tortuga: a young seamount in the Gulf of California. (B31). 484336
- chemical reactions**
- Simulated high-level waste-basalt interaction experiments. Annual progress report, October 1, 1977 - September 30, 1978. (E52). [Data] 466900
- compatibility**
- Conceptual design plan near-surface test facility: Phase II, Project B-300b. (E52). 471076
- geology**
- Geology of Gable Mountain-Gable Butte Area. (B31, E52). 472809
- Scoping study of salt domes, basalts and crystalline rock as related to long term risk modeling for deep geologic disposal of nuclear waste. (E52, B31). 461956
- hydrology**
- Geophysical logging and hydrologic testing of deep basalt flows in the Rattlesnake Hills Well Number One. (B31, E52). 487085
- isotope dating**
- Oxygen isotopic compositions of volcanic rocks from the East Japan island arcs and their bearing on petrogenesis. (B31). 476439
- isotope ratio**
- $^{143}\text{Nd}/^{144}\text{Nd}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios from the Azores and their significance in LIL-element enriched mantle. (B31). [Data] 487092
- Trace element and strontium isotope characteristics of volcanic rocks from Isla Tortuga: a young seamount in the Gulf of California. (B31). 484336
- moessbauer effect**
- Adjustment of a complex Moessbauer spectrum in a small computer. (A13). 471554
- petrogenesis**
- Rare earth elements in Dhandhuka bore hole suite Deccan basalts, Western India. (B11). 468589
- physical properties**
- Basalt alteration and basalt-waste interaction in the Pasco Basin of Washington State. Final report. (E52, B31). [Data] 466887
- Physical and thermal properties of basalt cores. Final report, fiscal year 1978. (B31). [Data] 469479
- rare earths**
- Rare earth elements in Dhandhuka bore hole suite Deccan basalts, Western India. (B11). 468589
- rock mechanics**
- Numerical modelling of rock stresses within a basaltic nuclear waste repository. Phase I, problem definition. (E52). 466893
- stratigraphy**
- Magnetostratigraphy of the Grande Ronde Basalt Pasco Basin, Washington. (B31). 494208

- stress analysis**
Numerical modelling of rock stresses within a basaltic nuclear waste repository. Phase II. Parametric design studies. (E52). [Data] 474255
- Technical support for GEIS: radioactive waste isolation in geologic formations. Volume 20. Thermo-mechanical stress analysis and development of thermal loading guidelines. (E52). [Data] 466889
- thermal stresses**
Heater test planning for the near surface test facility at the Hanford reservation. (E52). [Data] 488361
- thermodynamic properties**
Physical and thermal properties of basalt cores. Final report, fiscal year 1978. (B31). [Data] 469479
- Thermal properties of Gable Mountain basalt cores, Hanford Nuclear Reservation. (B31; Thermal conductivity and diffusivity, specific heat, and density at RT and 200°C). [Data] 479622
- well logging**
Geophysical logging and hydrologic testing of deep basalt flows in the Rattlesnake Hills Well Number One. (B31, E52). 487085
- BASEBALL DEVICES:**
magnetic field configurations
Magnetic field on the baseball coil. (A14). 464272
- BASEBALL SEAM CONFIGURATIONS:**
ion beam injection
Heavy ion beam probe plasma diagnostic system for the deep magnetic well LITE device. (A14). 467691
- BASEDOW'S DISEASE:**
See *HYPERTHYROIDISM*
- BASIC INTERACTIONS:**
See also *COMPTON EFFECT; COULOMB SCATTERING; ELECTROMAGNETIC INTERACTIONS; ELECTROPRODUCTION; FERMION INTERACTIONS; GRAVITATIONAL INTERACTIONS; LEPTONIC DECAY; PERIPHERAL COLLISIONS; PHOTON-HADRON INTERACTIONS; PHOTON-MESON INTERACTIONS; PHOTON-NUCLEON INTERACTIONS; PHOTON-PHOTON INTERACTIONS; PHOTON-PROTON INTERACTIONS; PHOTOPRODUCTION; STRONG INTERACTIONS; WEAK INTERACTIONS*
Large numbers, cosmic coincidences and gravity. (A15, A11). 467830
- BATTELLE PACIFIC NORTHWEST LAB:**
safety
Safety analysis report 306-W Building. (C54). 466351
- BATTERIES (ISOTOPIC):**
See *RADIOISOTOPE BATTERIES*
- BAUXITE:**
isotope ratio
Investigation of the anomalous isotope ratios of the Central-Transdanubian bauxites. (B31). [Data] 479646
- BCC LATTICES:**
crystal models
Magnetic ordering of four particle exchange model in BCC ^3He . (A17). 462511
- diffusion**
Present status of proton diffusion studies. (A13). 474874
- hydrogen**
Present status of proton diffusion studies. (A13). 474874
- lattice vibrations**
A model analysis on magnetism of solid ^3He . (A17). 462514
- BCS THEORY:**
hamiltonians
Microscopic mechanism for the macroscopic asymmetry of superconductivity. (A17). 467977
- intermediate mass nuclei**
Analytical solutions for the projection in isospin and number in the BCS treatment. (A33). 472172
- neutron separation energy**
Deformed nuclei in the Lipkin-Nogami approach. (A33). 478671
- pairing energy**
Deformed nuclei in the Lipkin-Nogami approach. (A33). 478671
- BEAGLES:**
decontamination
Toward an optimal DTPA therapy for decorporation of actinides: time-dose relationships for plutonium in the dog. I. (C21). [Data] 491020
- delayed radiation effects**
CSU-FDA collaborative Radiological Health Laboratory annual report, 1977. (C14). 487205
- dtpa**
Fetal injury induced by Ca-DTPA in dogs. (C21). [Data] 461110
- low dose irradiation**
Neoplasms in dogs receiving low-level gamma radiation during pre- and postnatal development. (C14). 482053
- radiodermatitis**
A visual method for assessing the radiation response of the skin of swine and beagles. (C14). 469639
- radionuclide kinetics**
Dependency of chelation efficacy upon time after first DTPA injection. (C21; Beagles, ^{241}Am , ^{237}Pu , and ^{239}Pu retention). 491031
- Deposition, retention, and dosimetry of inhaled ruthenium aerosols. (C21). 469790
- Determination of the retention of test aerosols inhaled by beagle dogs. (C31). [Data] 463262
- Disposition of americium-241 oxide following inhalation by beagles. (C21). [Data] 491017
- Influence of high specific activity on radiation dose patterns following inhalation of transuranic aerosols by laboratory animals. (C21). 469763
- Radiation dose patterns in beagle dogs following inhalation of monodisperse and polydisperse aerosols of $^{239}\text{PuO}_2$. II. (C21). 469773
- BEAM ANALYZERS:**
(For momentum analysis of charged particle beams.)
- See also *ELECTROSTATIC ANALYZERS; MAGNETIC ANALYZERS*
- digital circuits**
Low-cost digital system for control of a retarding potential energy analyzer. (A12, E42). 485459
- ion beams**
Improvements to mass spectrometers. (E42). 492207
- BEAM BENDING MAGNETS:**
beam optics
Study of a 90° bending magnet for H⁻ beams. (E16). 480510
- containers**
Choice of steel for the ISABELLE magnet tubes. (E16). 494761
- performance testing**
ESCAR, tests of superconducting bending magnets at the accelerator site. (E16). 494781
- power supplies**
Hardware implementation and test results of PEP chopper magnet power supply system. (E16). 487910
- BEAM BUNCHERS:**
cavity resonators
Buncher cavity resonant at the first and second harmonic. (E16). 487903
- mathematical models**
Calculations pertaining to the design of a prebuncher for a 150-MeV electron linear accelerator. II. Radial motion. (E16). 480409
- performance**
Double-drift beam bunching systems. (E16). 470397
- pulse techniques**
Phase measurement and control of bunched beams. (E16). 494809
- specifications**
Beam buncher for heavy ions. (E16). 470395
- Calculations pertaining to the design of a prebuncher for an electron linear accelerator. (E16). 473657
- Single-cavity double-frequency buncher. (E16). 477061
- synchronization**
Phase measurement and control of bunched beams. (E16). 466545
- BEAM BUNCHING:**
cavity resonators
Numerical solution of a model self-consistent electrodynamic problem. (E16). 487878
- electric fields**
Longitudinal motion of singly charged uranium ions at 9.5 GeV. (E16). 473715
- electron beams**
Study on nonstationary dynamics of high-current relativistic beam in electron linac waveguide sections. (E16). 491639
- linear accelerators**
Bunch monitor of linear accelerator. (E16). 491688
- one-dimensional calculations**
Calculations pertaining to the design of a prebuncher for an electron linear accelerator. (E16). 473657
- rf systems**
Microtron injector for LEP. (E16). 480450
- serpukhov synchrotron**
Longitudinal dipole instability of the bunched beam in a proton synchrotron. (E16). 477036
- van de graaff accelerators**
A system for producing pulsed ion beams at the Pelletron accelerator at Lund, Sweden. A pilot study. (E16). 494826
- BEAM CHOPPERS:**
See *BEAM PULSERS*
- BEAM COOLING:**
See *ELECTRON COOLING*
- BEAM CURRENTS:**
See also *KILO AMP BEAM CURRENTS; MILLI AMP BEAM CURRENTS*
faraday cups
Faraday cup. (E42, E16). 485146
- Faraday cups to measure high power pulsed relativistic electron beam currents. (E42). 495167
- ion sources**
Plasma properties of a modified beam-plasma type ion source. (A14). [Data] 489204
- BEAM DUMPS:**
(Mass of shielding material to absorb an accelerator beam after experimental use.)
neutrino beams
Experimental use of neutrinos from ISABELLE beam dumps. (E16). 494742
- neutrino reactions**
Beam dump experiments at the AGS. (A22). 478569
- neutrinos**
An explanation of the beam dump experiment. (A22). 481443
- thermal neutrons**
TRIUMF thermal neutron facility. (E16). 487888
- BEAM DYNAMICS:**
(Particle beam motion inside an accelerator.)
See also *BEAM BUNCHING; BETATRON OSCILLATIONS*
cooling
On stochastic cooling. (E16). 484860
- equations of motion**
Envelope method in problems of charged particle beam control. (E16). 491597
- kek synchrotron**
Coherent instability through kicker magnet in KEK booster. (E16). 491644
- [Data] Longitudinal beam motion in the KEK booster synchrotron. (E16). 491602
- [Data] **liouville theorem**
Are we beating Liouville's theorem. (E16). 480500

- particle boosters**
 Longitudinal beam motion in the KEK booster synchrotron. (E16).
 [Data] 491602
- transfer matrix method**
 Method of transfer maps for linear and nonlinear beam elements. (E16). 476985
- BEAM EMITTANCE:**
- beam monitoring**
 Process and device of measurement of the emittance of a charged particle beam. (E16). 470418
- on-line measurement systems**
 Data processing of emittance measurement. (E16). 491658
- proton beams**
 On increasing a proton beam emittance of the I-2 linac. (E16). 461553
- BEAM EXTRACTION:**
- finite element method**
 Computer simulation of ion beam extraction. (A12). 488876
- gating circuits**
 Ion withdrawal studies of the quadrupole ion storage trap. II. (D14). 491400
- kek synchrotron**
 Servo-spill system for KEK internal target. (E16). 491601
- performance**
 Experience with the LAMPF Line D Fast Kicker System. (E16). 494865
- rf systems**
 Ion withdrawal studies of the quadrupole ion storage trap. II. (D14). 491400
- BEAM FOCUSING MAGNETS:**
- geometrical aberrations**
 Minus-I quadrupole system for containing aberration-correction octupoles. (E16). 487901
- inhomogeneous fields**
 Measurements and analyses of the inhomogeneities of magnetic fields along a central ray in a sectorial electromagnet. (E16). 470402
- magnetic fields**
 Device to measure quadrupole gradient-length product. (E16, E42). 487927
- performance**
 Measurements and correction of the PEP interaction region quadrupole magnets. (E16). 487919
- performance**
 Measurements and analyses of the inhomogeneities of magnetic fields along a central ray in a sectorial electromagnet. (E16). 470402
- Measurements on the NSF injector and analysing magnets. (E16). 494728**
- power supplies**
 Hardware implementation and test results of PEP chopper magnet power supply system. (E16). 487910
- specifications**
 PEP insertion quadrupole design features. (E16). 487877
- Strong rare earth cobalt quadrupoles. (E16). 480459**
- BEAM INJECTION:**
 See also *ELECTRON BEAM INJECTION; ION BEAM INJECTION; NEUTRAL ATOM BEAM INJECTION; PLASMA BEAM INJECTION; RELATIVISTIC BEAM INJECTION*
- grids**
 Grids heat loading of an ion source in two-stage acceleration system. (A14). 467651
- meson factories**
 Computation of the injection channel of high current beam for the meson factory of the Institute of the Nuclear Research of the Academy of Sciences of the USSR. (E16). 470422
- moments method**
 Computation of the injection channel of high current beam for the meson factory of the Institute of the Nuclear Research of the Academy of Sciences of the USSR. (E16). 470422
- BEAM INJECTION HEATING:**
 Effects of e-beam temperature on plasma heating. (A14). 475151
- Evolution of neutral-beam driven current in tokamak plasmas. (A14). 464470**
- Experimental investigation of moderate energy electron beam-plasma interaction and thermal electron heating with finite amplitude ion density fluctuations. (A14). 460009**
- Intense neutral beam heating in the adiabatic approximation. (A14; High-β state of equilibrium by heating adiabatically under flux conservation conditions). 489279**
- Plasma heating by injection of relativistic electron beams in neutral gas. (A14). 474999**
- Theoretical and experimental study of space charge in intense ion beams. (A14, A12). 467562**
- atomic beam sources**
 Properties of an intense 40-kV neutral beam injector. (A14). 475135
- cyclotron instability**
 Lower hybrid instability driven by oblique ion-beam injection. (A14). 462407
- electron beam injection**
 Investigation of plasma heating by powerful relativistic electron beams. (A14). 464247
- The use of relativistic electron beams to create magnetically confined plasmas inside imploding liners. (A14). 483399**
- ion emission**
 Behavior of fast ions in a large Tokamak plasma during NBI heating. (A14). 464493
- ion sources**
 Development of large volume magnetic multipole ion sources. (A14). 464326
- Electrode power loading in high current ion sources. (A14). 464507**
- jft-2 tokamak**
 Composition of neutral beam for heating JFT-2 plasma. (A14). 471721
- neutral atom beam injection**
 The development of a peripheral electrostatic energy recovery system for neutral beam injectors. (A14). 464448
- Development of large volume magnetic multipole ion sources. (A14). 464326**
- The DITE Phase II neutral injection system. (A14). 471652**
- Electrode power loading in high current ion sources. (A14). 464507**
- Fokker-Planck /transport analyses of fusion plasmas in contemporary beam-driven Tokamaks. (A14). 464414**
- Injection-dominated Tokamak experiments at ORNL. (A14). 464427**
- Neutral beam injection in JIPP T-II device. (A14). 464389**
- Neutral injection parameters for TEXTOR and beam line design considerations. (A14). 464388**
- Neutral injection heating of Cleo Stellarator - Theory and experiment. (A14). 464400**
- Observation of beam-induced currents in a toroidal plasma. (A14). 464479**
- PLT and ISX neutral beam injectors. (A14). 464339**
- neutron emission**
 Fusion-neutron production in deuterium-beam-heated plasmas in the Princeton Large Tokamak. (A14). 464483
- relativistic beam injection**
 The use of relativistic electron beams to create magnetically confined plasmas inside imploding liners. (A14). 483399
- BEAM LUMINOSITY:**
 (Colliding beam interaction rate)
- beam monitors**
 Design of small angle luminosity monitor/two photon tagging detector. (E16). 487931
- BEAM MONITORING:**
- beam luminosity**
 Coulomb interference in $e^+e^- \rightarrow e^+e^-$ near the Z^0 pole. (E16, A22). 484864
- eddy currents**
 On the limiting possibilities of the "countercurrent" method for monitoring charged particle beams of small pulse duration. (E16). 476966
- electron beams**
 Measuring mean energy of 0.3-1.0 MeV electrons extracted into atmosphere. (E16). 476948
- electron-positron interactions**
 Coulomb interference in $e^+e^- \rightarrow e^+e^-$ near the Z^0 pole. (E16, A22). 484864
- BEAM MONITORS:**
 See also *BEAM SCANNERS; FARADAY CUPS*
- backscattering**
 Beam profiling by backscattering from thin wires. (E16). 484869
- beam profiles**
 Electron beam parameters measuring by residual gas ionization. (E16). 477035
- Noninteractive beam position and size monitor for heavy ions. (E16). 480432**
- Performance testing of a profile monitor for heavy ion beams. (E16). 484871**
- Process and device of measurement of the emittance of a charged particle beam. (E16). 470418**
- Recent progress of the beam profile measurements for KEK 12 GeV proton synchrotron. (E16). 491615**
- electric coils**
 A beam position monitor for use with pulsed charged particle beams. (E16). 484859
- faraday cups**
 Monitoring instruments of the system for positrons and quasi-monoenergetic annihilation photon production on an electron linear accelerator. (E16). 494768
- feasibility studies**
 Experimental studies of the acoustic signature of proton beams traversing fluid media. (E41, E16, A32). 466804
- ionization chambers**
 Monitoring instruments of the system for positrons and quasi-monoenergetic annihilation photon production on an electron linear accelerator. (E16). 494768
- kek synchrotron**
 Recent progress of the beam profile measurements for KEK 12 GeV proton synchrotron. (E16). 491615
- linear accelerators**
 Bunch monitor of linear accelerator. (E16). 491688
- Electron beam profile monitor. (E16). 491566**
- organic polymers**
 Measuring current density distribution over an electron beam profile in pulse accelerators with a large irradiation field. (E16). 476943
- performance**
 High intensity beam profile monitors for the LAMPF primary beam lines. (E16, A14). 477001
- Microprocessor based beam loss monitor system for the AGS. (E16). 477088**
- 30 μA beam toroid. (E16). 480506**
- resolution**
 Electron beam spectrum monitor using synchrotron light. (E16). 477056
- specifications**
 A beam position monitor for use with pulsed charged particle beams. (E16). 484859
- Design of HELIOS beam diagnostics. (A14). 485803**
- Ionization chamber. (E16, E41; Patent). 487933**
- A solid-state X-ray beam monitor. (E41). 474122**

- transition radiation**
Transition radiation monitors in accelerator equipment. (B32, E16). 469544
- BEAM POSITION:**
beam monitors
A beam position monitor for use with pulsed charged particle beams. (E16). 484859
Beam profiling by backscattering from thin wires. (E16). 484869
- BEAM PRODUCTION:**
pulse techniques
Experiments with generation of relativistic electron beams. (A12). 492542
- BEAM PROFILES:**
beam monitors
Beam profiling by backscattering from thin wires. (E16). 484869
cobalt 60
Influence of beam height on the beam width profiles of cobalt therapy machines. (C64). 463480
ionization chambers
Ionization chamber. (E41, E16). 474126
irradiation devices
Influence of beam height on the beam width profiles of cobalt therapy machines. (C64). 463480
kek synchrotron
Recent progress of the beam profile measurements for KEK 12 GeV proton synchrotron. (E16). 491615
magnetic fields
Magnetic field and behaviours of the proton beam of the booster synchrotron. (E16). 491631
particle boosters
Magnetic field and behaviours of the proton beam of the booster synchrotron. (E16). 491631
s codes
Program for calculation of intensive beam envelopes in the Yarkovoj model. (F51). 492357
- BEAM PULSERS:**
See also NEUTRON CHOPPERS
electrostatics
A fast electrostatic chopper of low power consumption. (E16). 470374
gamma radiation
Model of a superfast lock for resonance gamma radiation. (E41, E42). 477316
- BEAM SCANNERS:**
beam profiles
Beam-scanning system for determination of beam profiles and form factors in merged-beam experiments. (A12). 481033
calibration
Check of calibration of the horizontal IBS. (E16). 473684
form factors
Beam-scanning system for determination of beam profiles and form factors in merged-beam experiments. (A12). 481033
on-line control systems
Microprocessor-based scan control unit for electron and photon beams used in surface analysis. (E42). 488296
specifications
Double deflection system for an electron beam device. (E16; Patent). 477048
- BEAM SEPARATORS:**
(For velocity separation of secondary beams.)
velocity
The velocity filter SHIP, a separator of unslowed heavy ion fusion products. (E42). 485149
- BEAM SHAPING:**
beam bunching
Longitudinal stabilization of bunched beam in the booster by a 2f sub(s) feedback loop. (E16). 491678
beam transport
New form of coefficients for linear transformation of the charged particle beam in the magnet quadrupole element. (E16). 477073
kek synchrotron
Longitudinal stabilization of bunched beam in the booster by a 2f sub(s) feedback loop. (E16). 491678
proton beams
Two-arm spectrometer for investigation of the A(p, xd)B nuclear reactions at 670 MeV. (E41). 477366
pulse techniques
Pile-up reduction by detector-induced beam suppression. (E41). 492078
- BEAM STACKING:**
instability
Transverse resistive wall instability of an off-axis ribbon beam in a circular chamber. (E16). 480445
- BEAM STRIPPERS:**
ecr heating
Electron cyclotron resonance (E.C.R.) multiply charged ion sources. (E16, A14). 494777
efficiency
Rocket plots of charge state distributions for tandem electrostatic accelerators. (E16). 494848
foils
A new long-lived carbon stripper foil. (E16). 470425
hydrocarbons
A new long-lived carbon stripper foil. (E16). 470425
lifetime
The behaviour and physical characteristics of carbon stripper foils prepared by different methods. (B24, B25). 490702
The enhancement of the lifetime of carbon stripper foils under heavy ion bombardment. (E16). 473664
The lifetime under irradiation of carbon stripper foils made by cracking hydrocarbons. (B25, B24). 490709
- performance**
Operation of a large gridded foil stripper in the terminal of a tandem accelerator. (E16). 494755
- physical radiation effects**
The behaviour and physical characteristics of carbon stripper foils prepared by different methods. (B24, B25). 490702
The lifetime under irradiation of carbon stripper foils made by cracking hydrocarbons. (B25, B24). 490709
- BEAM TRANSPORT:**
electron beams
KEK PF storage ring injection. (E16). 491677
proton beams
Two-arm spectrometer for investigation of the A(p, xd)B nuclear reactions at 670 MeV. (E41). 477366
simulation
Computer simulation of ion orbits in the Argonne superconducting heavy-ion linac (test version). (E16). 494832
- BEAM WIDTHS:**
See BEAM PROFILES
- BEAM-FOIL SPECTROSCOPY:**
See ION SPECTROSCOPY
- BEAM-GAS SPECTROSCOPY:**
See ION SPECTROSCOPY
- BEAM-PLASMA SYSTEMS:**
Electron injection into dense hydrogen, deuterium, and neon. (A14). 459921
Stable propagation of an electron beam in gas. (A14). 475075
acoustic heating
Growth rate of the cross-field ion acoustic instability and heating of beam ions. (A14). 459856
adiabatic processes
Adiabatic equations of state for intense relativistic particle beams. (A14). 485807
alfven waves
Alfven fluctuations in an inhomogeneous and non-equilibrium plasma. (A14). 483406
atom-atom collisions
Energetic binary collisions in rare gas plasmas. (A12). 474648
beam currents
Current multiplication during relativistic electron-beam propagation in plasma. (A14). 467520
beam injection heating
Experimental investigation of moderate energy electron beam-plasma interaction and thermal electron heating with finite amplitude ion density fluctuations. (A14). 460009
beam optics
Production of intense focused ion beams in a spherical magnetically insulated diode. (A14). 485725
beam transport
Proposal for the theoretical investigation of light-ion beam propagation through a residual plasma environment. (A14). 478183
Structures of an electron beam drifting in vacuum and in low-pressure gases. (A14). 478112
betatron oscillations
Betatron resonance instabilities in axisymmetric field-reversed systems. (A14). 478039
carbon dioxide lasers
Radiation field induced perturbations in CO₂ laser plasmas. (A14). 489341
cyclotron instability
Beam-plasma interactions in a filled waveguide immersed in an applied axial magnetic field. (A14). 467657
Effects of finite radial beam geometry and magnetic self-fields on beam-plasma interactions in a plasma filled waveguide. (A14). 467658
Instability of the fast cyclotron wave in a spiral beam-plasma system. (A14). 475048
cyclotron resonance
Cyclotron damping of the space charge wave of a beam in a nonuniform magnetic field region. (A14). 475050
damping
Cyclotron damping of the space charge wave of a beam in a nonuniform magnetic field region. (A14). 475050
diffusion
Plasma diffusion in a space-simulation beam-plasma-discharge. (A14). 478181
dispersion relations
Measurements of the dispersion relation in an ion beam-plasma system. (A14). 478093
earth magnetosphere
Electron beam emission at harmonics of half the gyrofrequency. (B33, A14). 460916
electric fields
Radiation from beam-plasma interaction in the presence of a dc field. (A14). 475074
electromagnetic fields
Radio emission from an intense electromagnetic beam-plasma system. (A15, A14). 489546
electron beams
Cyclotron harmonic damping in stimulated Raman scattering from an intense relativistic electron beam. (A14). 478049
Excitation of nonlinear stationary waves in plasma by electron bunches. (A14). 467491
Inertial confinement fusion research at Osaka. New developments in laser energy drivers, laser and REB fusion research. (A14). 483303
Nonlinear stabilization of electron-beam instability in a two-stream plasma. (A14). 489173
On the dynamics of the quasilinear relaxation of an electron beam

| | | | |
|---|--------|---|--------|
| in an inhomogeneous plasma. (A14). | 489232 | electronic energy deposition. (A14). | 478144 |
| electron cyclotron-resonance | | plasma instability | |
| Cyclotron damping of the space charge wave of beam in a nonuniformmagnetic field region. (A14). | 475049 | The beam plasma interaction in the strong turbulence limit. (A14). | 459909 |
| electron density | | The effect of the nonuniformity of the magnetic field on the beam-plasma instability. (A14). | 475047 |
| Laboratory double layers. (A14). | 478016 | Leaky surface waves induced by inhomogeneous relativistic electron beam. (A14). | 460014 |
| electron plasma waves | | On the modulation instability of Langmuir oscillations excited by relativistic beams. (A14). | 483361 |
| Effect of the nonuniformity of magnetic field on the instability of plasma wave. (A14). | 475138 | On the role of the Cherenkov and cyclotron resonances at the excitation of beam instabilities. (A14). | 475028 |
| Measurement of relativistic electron beam energy losses due to beam-plasma interaction. (A14). | 462334 | Velocity space ring-plasma instability, magnetized, Part II: Simulation. (A14). | 485762 |
| Suppression and subharmonic excitation of an electron plasma wave by beam modulation. (A14). | 462344 | Wave coupling effects in the nonlinear evolution of the beam-plasma instability. (A14). | 467700 |
| electron temperature | | plasma microinstabilities | |
| Plasma properties of a modified beam-plasma type ion source. (A14). [Data] | 489204 | Renormalization procedure of electromagnetic instabilities in beam-plasmas. (A14). | 481218 |
| emission spectra | | plasma waves | |
| Radiation field induced perturbations in CO ₂ laser plasmas. (A14). | 489117 | Interaction of a low density runaway beam with cavity modes. (A14). | 485777 |
| Radiation field induced perturbations in CO ₂ laser plasmas. (A14). | 489341 | Non-linear plasma oscillations in one-dimensional flux. (A14). | 474933 |
| emission spectroscopy | | Nonlinear interaction of Langmuir waves at the input of a beam into an inhomogeneous unmagnetized plasma. (A14). | 489093 |
| Radiation field induced perturbations in CO ₂ laser plasmas. (A14). | 489117 | On the anomalous wave amplification in a plasma with an electron beam. (A14). | 478142 |
| energy losses | | On the explosive wave amplification in the beam plasma system. (A14). | 462377 |
| Radiative losses due to impurities and $n_{\text{sub}}(e)\tau$ parameter of a thermonuclear plasma with fast neutral atom injection. (A14; Fe, Mo, C ion impurities). | 489087 | pressure measurement | |
| energy spectra | | On the problem of gas pressure change in high-current electron beam interaction with plasma. (A14). | 492809 |
| Oxygen neutral beam probing and ion energy distribution evaluation. (E16, A14). | 494875 | radiation sources | |
| energy transfer | | Radiation from beam-plasma interaction in the presence of a dc field. (A14). | 475074 |
| Effects of e-beam temperature on plasma heating. (A14). | 475151 | radiowave radiation | |
| Measurements on the energy loss of a relativistic electron beam in a plasma. (A14). | 475059 | Radio emission from an intense electromagnetic beam-plasma system. (A15, A14). | 489546 |
| explosive instability | | raman effect | |
| Numerical study of the explosive instability in a beam-plasma system. (A14). | 459922 | Cyclotron harmonic damping in stimulated Raman scattering from an intense relativistic electron beam. (A14). | 478049 |
| feedback | | remote control | |
| Feedback mechanism in self-oscillations excited by the ion-ion instability. (A14). | 489091 | A programmable remote control system for REB-plasma interaction experiment. (A14). | 492788 |
| flute instability | | research programs | |
| Velocity space ring-plasma instability, magnetized, Part I: Theory. (A14). | 485761 | Annual report to the Laser Facility Committee 1979. (A14). | 489331 |
| focusing | | resonance absorption | |
| Self-focusing and self-defocusing of elliptically shaped Gaussian laser beams in plasmas. (A14). | 467640 | Wavebreaking amplitudes in warm, inhomogeneous plasmas. (A14). | 478096 |
| instability | | runaway electrons | |
| Beam-plasma instability of a finite temperature electromagnetoplasma. (A14). | 462371 | Interaction of a low density runaway beam with cavity modes. (A14). | 485777 |
| Excitation of turbulence by a relativistic electron beam. (A14). | 471674 | solitons | |
| ion acoustic waves | | Excitation of Langmuir solitons by a monoenergetic electron beam. (A14). | 492723 |
| Suppression of beam excited ion-acoustic noise by an externally applied RF signal. (A14). | 489291 | specifications | |
| ion density | | An experiment to study plasma heating by intense relativistic electron beam. (A14). | 492805 |
| Laboratory double layers. (A14). | 478016 | stability | |
| ion wave instability | | Betatron resonance instabilities in axisymmetric field-reversed systems. (A14). | 478039 |
| Fast ion beam-plasma interaction system. (A14). | 489116 | Nonlinear stabilization of an electron beam instability in a plasma with high level of sound turbulence. (A14). | 483341 |
| Growth rate of the cross-field ion acoustic instability and heating of beam ions. (A14). | 459856 | turbulence | |
| laser implosions | | Excitation of turbulence by a relativistic electron beam. (A14). | 471674 |
| Inertial confinement fusion research at Osaka. New developments in laser energy drivers, laser and REB fusion research. (A14). | 483303 | two-stream instability | |
| [Data] | | Beam-plasma interactions in a filled waveguide immersed in an applied axial magnetic field. (A14). | 467657 |
| laser radiation | | Effects of finite radial beam geometry and magnetic self-fields on beam-plasma interactions in a plasma filled waveguide. (A14). | 467658 |
| Self-focusing and self-defocusing of elliptically shaped Gaussian laser beams in plasmas. (A14). | 467640 | Nonlinear two-stream interaction between a cold, relativistic electron beam and a collisional plasma-Astron experiment. (A14). | 485782 |
| Wavebreaking amplitudes in warm, inhomogeneous plasmas. (A14). | 478096 | Stability theory of a relativistic electron beam-plasma system with finite geometries. (A14). | 478182 |
| lasers | | wave propagation | |
| Special optics for laser compression. (A14). | 489320 | Stimulated backscattering from relativistic unmagnetized electron beams. (A14). | 478176 |
| magnetic mirrors | | Wave propagation in an ion beam-plasma system. (A14). [Data] | 475058 |
| A magnetic mirror field system for REB-plasma interaction experiment. (A14). | 492819 | BEAMS: | |
| neutral atom beam injection | | See also more specific entries as listed in the INIS Thesaurus. | |
| Oxygen neutral beam probing and ion energy distribution evaluation. (E16, A14). | 494875 | Hyperon beams as a source of polarized protons. (E16, A12). | 491684 |
| normal-mode analysis | | cooling | |
| Normal mode analysis with absorption effects of a laser beam in a plasma waveguide. (A14). | 475087 | On stochastic cooling. (E16). | 484860 |
| optical systems | | energy losses | |
| Special optics for laser compression. (A14). | 489320 | Time-domain numerical computations of electromagnetic fields in cylindrical co-ordinates using the transmission line matrix: evaluation of radiation losses from a charge bunch passing through a pill-box resonator. (E16, F51). | 470412 |
| particle interactions | | mechanical vibrations | |
| Transverse beam motion acquired during beam-plasma heating. (A14). | 471668 | Dynamics of component-support impact: an elastic analysis. (E13). | 484849 |
| plasma density | | supports | |
| Plasma properties of a modified beam-plasma type ion source. (A14). [Data] | 489204 | Dynamics of component-support impact: an elastic analysis. (E13). | 484849 |
| plasma diagnostics | | | |
| Magnetic probe diagnostics for REB-plasma interaction studies. (A14). | 492762 | | |
| A single channel 8mm-wave interferometer for electron density measurements in REB-plasma interaction experiments. (A14, E42). | 492818 | | |
| plasma heating | | | |
| An experiment to study plasma heating by intense relativistic electron beam. (A14). | 492805 | | |
| Simultaneous measurement of the temperature and the hydrodynamic speed of a thin foil submitted to an intense | | | |

BEAN PLANT:See *PHASEOLUS***BEANS:**

- humidity**
Influence of humidity in the radiosensitivity of bean seed (Phaseolus vulgaris, L.). (C13, C43). 484497
- metabolism**
Behavior of ¹⁴C photosynthetic products during the reproductive growth in broad bean plant. (C41). 473142
- photosynthesis**
Behavior of ¹⁴C photosynthetic products during the reproductive growth in broad bean plant. (C41). 473142
- plant stems**
Study on the strontium- and cesium-uptake of certain plants. (C21). 479964
- productivity**
Evaluation of radiation-induced mutant lines of mung bean (Vigna radiata (L.) Wilczek) for grain yield and protein content. (C41; γ-rays). 463293
- proteins**
Electrophoretic behavior of beans (P. vulgaris) proteins face to ionizing radiation. (C13). 482013
Evaluation of radiation-induced mutant lines of mung bean (Vigna radiata (L.) Wilczek) for grain yield and protein content. (C41; γ-rays). 463293
High-protein lines in field beans Vicia faba from a breeding programme using gamma rays. 1. Seed yield and heritability of seed protein. (C41). [Data] 463272
- radionuclide kinetics**
Transfer of zinc 65 from water to aerial parts of corn and beans resulting from irrigation by aspersion. Effect of the chemical form of the pollutant and of water quality. (C22). 463255
- radiosensitivity**
Influence of humidity in the radiosensitivity of bean seed (Phaseolus vulgaris, L.). (C13, C43). 484497
- roots**
Study on the strontium- and cesium-uptake of certain plants. (C21). 479964

BEARINGS:See also *JOURNAL BEARINGS*

- temperature measurement**
Application of existing iron-babbitt metal pairing in slide bearings as a thermocouple in technical diagnostics. (E42). 488298

BEEF:See *MEAT***BEEES:**See *INSECTS***BEETLES:**See also *BOLL WEEVIL; TRIBOLIUM*

- gamma radiation**
Gamma irradiation effects on larval and pupal stages on the saw toothed grain beetle oryzaephilus. (C42). 491088
- labelling**
A radioisotope technique for laboratory studies of the dispersal of rice weevil in grain. (C42). 484617

BEHAVIOR:

(Limited to living systems.)

- biological radiation effects**
American coot (Fulica americana) on the Hanford Site. Part 1. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). [Data] 487211
Environmental physiology. (C14; Gamma radiation, rodents). 469633
- personnel**
A note on some behavioral aspects of radiation protection staff working in hospitals around Delhi. (C54). [Data] 473289
- temperature dependence**
Incorporation of sublethal effects and indirect mortality in modeling population-level impacts of a stress, with an example involving power-plant entrainment and striped bass. (C52). 476722
Thermoregulation of fish and turtles in thermally stressed habitats. Annual progress report, October 1, 1977 - September 30, 1978. (B32). 472858
- tracer techniques**
Radioactive marking in the study of locomotion in small mammals. (C31). 487322

BELGIAN REACTOR 2:See *BR-2 REACTOR***BELGIUM:**

- atomic energy law**
Act of 1 August 1966 approving the International Conventions: 1. Convention on Third Party Liability in the Field of Nuclear Energy, done in Paris on 29 July 1960; 2. Supplementary Convention and Annex, done in Brussels on 31 January 1963; 3. Additional Protocol to the Paris Convention, done in Paris on 28 January 1964; 4. Additional Protocol to the Brussels Supplementary Convention done in Paris on 28 January 1964. (F25). 466931
Act of 18 July 1966 on Third Party Liability in the Field of Nuclear Energy, establishing certain measures regarding implementation of the Paris Convention and its additional protocol. (F25). 463813
Act of 4 August 1955 concerning State Security in the Nuclear Field. (F28). 463821
Royal Order of 18 May 1971 regulating Ministerial competences in atomic energy. (F27). 463816
- civil liability**
Act of 9 August 1963 relating to the liability of the operator of a nuclear ship. (F25). 463811

contamination regulations

- Ministerial Order of 12 March 1956 setting the concentration limits for the radioactive materials referred to in the Act of 11 March 1950 on protection of water against pollution. (F23). 463802
- energy policy**
Act of 5 August 1958 relating to economic and budgetary reforms. (F27). 463818
- licensing**
Royal Order of 22 April 1974 on Establishment of Fees in Implementation of Regulations on Protection at Work, Protection against Hazardous Equipment and Ionizing Radiations and amending the General Regulations on Protection at Work. (F22). 463797
- licensing procedures**
Ministerial Order of 24 April 1964 on the approval of types of devices containing radioactive substances, made in implementation of Section 3.1 d/2 of the Royal Order of 28 February 1963 embodying the General Regulations for the Protection of the Population and Workers against the Hazards of Ionizing Radiations. (F21, F23). 466922
- national organizations**
Ministerial Order of 24 July 1964 approving the Rules of Procedure of the Special Commission set up by Section 6.5 of the Royal Order of 28 February 1963 embodying the general Regulations for the Protection of the Population and Workers against the Hazards of Ionizing Radiations. (F27). 463817
New Statute of the Nuclear Energy Research Centre (CEN), copy of Act No. 1429, amended by Act No. 1145 and Act No. 5652, respectively published in the annexes of the Belgian Official Gazette of 28 March 1963, 3 March 1966 and 17 September 1970. (F27). 463819
- nuclear power**
Nuclear power in Belgium. (E30). 491841
- occupational diseases**
Royal Order of 28 March 1969 listing occupational diseases giving rise to compensation. (F25). 463812
- power plants**
Nuclear power in Belgium. (E30). 491841
- radiation protection law**
Act of 29 March 1958 relating to the Protection of the Population against the Hazards of Ionizing Radiations. (F23). 463800
Act of 3 December 1969 empowering the King to establish fees in implementation of Regulations concerning Protection at Work, Protection against Hazardous Equipment and Ionizing Radiations. (F22, F23). 463796
Royal Order of 28 February 1963 embodying the general Regulations for the Protection of the Population against the Hazards of Ionizing Radiations, as amended by Royal Orders of 17 May 1966, 22 May 1967, 23 December 1970 and 23 May 1972. (F23). 463803
Royal Order of 5 December 1975 amending the Royal Order of 11 May 1971 embodying the general Military Regulations for Protection Against the Hazards of Ionizing Radiations. (F23). 463801
- radioactive materials**
Royal Order of 27 July 1966 relating to the reciprocal recognition of licences for the import, transport, transit, and distribution of radioactive substances between the countries of the Benelux Economic Union. (F21). 466923
- BELLOWS:**
¹(Use only for the expandable structure. Coordinate with descriptors for the device of which the bellows is a component, e.g., VALVES or BLOWERS.)
- flexibility**
Flexibility of axially loaded toroidal bellows in creep. (E22). 461628
On the elastic flexibility of axially loaded omega and toroidal bellows. (E22). 461612
- heaters**
Thermonuclear device. (A14; auxiliary heater). 489359
- leak testing**
Penetration bellows for a nuclear reactor container and the method of its leak test. (E22). 491761
- lifetime**
Calculated and experimental lifetime of U-profile bellows. (E22). 477130
- safety**
Container penetration in nuclear power plant. (E22). 477124
- specifications**
Bellows arrangement with double walls for coping with high pressures. (E13). 461514
- valves**
Bellows valves for nuclear power plants. (E22). 482687
- BELOYARSK-1 REACTOR:**
- excursions**
Stochastic effects of operating parameters on reliability of nuclear reactors against unexpected failures. (E21). [Data] 487976
- BELT PINCH:**
- transport theory**
Classical transport in Belt-Pinch IIa. (A14). [Data] 464262
- BENTONITE:**
- chemisorption**
Particle size distribution analysis and cesium sorption capacity of some bentonites. (B11). 490268
- radionuclide migration**
In situ experiments on nuclide migration in fractured crystalline rocks. (B31, E52). 494199
- BENZALDEHYDE:**
- chemical radiation effects**
Radiation sensitive polymeric o-nitrophenyl acetals and element. (B14; Patent). 479252

- chemical reaction kinetics
Mechanism of the Cannizzaro reaction. (B12). 490412
- chemical reaction yield
Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- reduction
Reduction of benzaldehyde by methoxide ion in aqueous methanol. (B12). 490413
- BENZEDRINE:**
- gas chromatography
Comparison of radioimmunoassay and gas chromatographic mass spectrometric assay for d-amphetamine. (C45, C62). 487370
- radioimmunoassay
Comparison of radioimmunoassay and gas chromatographic mass spectrometric assay for d-amphetamine. (C45, C62). 487370
- radiosensitivity
Effect of selected drugs on first-stage radioemesis in beagle dogs. (C14; Following x irradiation of abdomen). 490953
- BENZENE:**
- binding energy
Isothermal ramped field-desorption of benzene from tungsten. (B22). 490619
- chemical radiation effects
Quenching of benzene fluorescence in pulsed proton irradiation. Temperature dependence. (B14). 486776
- chemical reactions
Radiotracer experiments on carbon formation in zeolites. II. (B12). [Data] 465427
- dehydrogenation
Equilibrium geometries and relative energies of the lowest singlet and triplet states of o-, m-, and p-benzynes. (B12). 472454
- desorption
Isothermal ramped field-desorption of benzene from tungsten. (B22). 490619
- deuteration
Isotope effects in the hydrogenation and exchange of benzene on platinum and nickel. (B12). 486673
- electron-molecule collisions
Electron impact study of the 50 000 cm⁻¹ band of benzene. (A12). 488790
- Electronic spectroscopy of benzene and the fluorobenzenes by variable angle electron impact. (A10). [Data] 463869
- hydrogenation
Isotope effects in the hydrogenation and exchange of benzene on platinum and nickel. (B12). 486673
- organic fluorine compounds
Inhibition and enhancement of positronium formation in solutions of fluorobenzenes. (A12). 483231
- photolysis
Mechanism of reaction of SO₄⁻ with some derivatives of benzoic acid. (B12, B14). 472472
- radiolysis
Investigation of radical formation at γ-radiolysis of alkyl benzenes with help of spin traps. (B14). 468938
- Low-energy electron paths and distribution functions of ion pairs in water and benzene. (B14). 472542
- Mechanism of reaction of SO₄⁻ with some derivatives of benzoic acid. (B12, B14). 472472
- Oxidation of the cyclohexadienyl radical by metal ions. (B14). [Data] 493786
- reduction
Sources of hydrogen in the electrochemical reduction of iodobenzene in dimethylformamide solution. (B12). 486560
- BENZENEDICARBOXYLIC ACID-ORTHO:**
See *PHTHALIC ACID*
- BENZENEDICARBOXYLIC ACID-PARA:**
See *TEREPHTHALIC ACID*
- BENZOFURANS:**
- chemical radiation effects
Vapor-phase radiation chemical reactions of furan benzoderivatives with chlorosilanes - new method of silicoxygen-containing heterocycles synthesis. (B14). 479303
- chemiluminescence
Lyoluminescence of irradiated carbohydrates. Induced emission from diphenylisobenzofuran. (B14, E41). 460593
- metabolism
Basic studies on quantitative determination of two glucuronides of befunolol metabolite by selected ion monitoring (SIM) using mono-deuterium labelled compound. (C45). 482188
- BENZOIC ACID:**
See also *IOGLYCAMIC ACID*
- isotope effects
The anomalous behaviour of ¹⁰⁰-labelled compounds. (B12). 490393
- liquid column chromatography
Separation of radioiodine-labelled 2,3,5-triiodobenzoic acid on Sephadex LH-20. (B13, C41). 476168
- photolysis
Mechanism of reaction of SO₄⁻ with some derivatives of benzoic acid. (B12, B14). 472472
- radiolysis
Mechanism of reaction of SO₄⁻ with some derivatives of benzoic acid. (B12, B14). 472472
- Radiation chemistry of the ferrous sulfate-benzoic acid-xenonol orange system. (B14; γ rays). 468948
- solvolysis
Remote secondary deuterium kinetic isotope effects as a probe of steric strain in the solvolysis of tertiary alkyl carbonyl systems. (B12). [Data] 486566
- BENZOIC ALDEHYDE:**
See *BENZALDEHYDE*
- BENZOPHENONE:**
- chemiluminescence
The thermal decomposition of 3, 3'- (0, 0'-Biphenylene)-4-methoxy-1, 2-Dioxetane and 3, 3'- Diphenyl-4-methoxy-1, 2-Dioxetane. A concerted VS a diradical pathway. (A12). 485400
- cold neutrons
Total cross sections of cold neutrons with diphenyl. (A31; 293-653 K). 464927
- isotope effects
Isotope effects on the fine structure parameters and phosphorescence spectra of triplet benzophenones. (B12). 484067
- phosphorescence
Isotope effects on the fine structure parameters and phosphorescence spectra of triplet benzophenones. (B12). 484067
- reduction
Competitive processes in retardation by mercaptans of photoreduction by alcohols. (B12). 486586
- BENZOPYRENE:**
- biological effects
Changes in mammalian sperm morphology after x-ray and chemical exposures. (C14; Mice). 494307
- Monitoring environmental exposures with semen assays. (C14; Mice). 476546
- Transformations of C3H 10T1/2 cells by Benzo(a)pyrene and subsequent attempts at suppression of transformed foci by untransformed cells and Vitamin A. (C21; Alpha particles). [Data] 479951
- chemical radiation effects
Radiation-induced oxidation of benzo[a]pyrene. (B14, C52; Gamma radiation). 493804
- molecular structure
Interaction of radiation with matter. (A12, A32). 474635
- mutagenesis
Monitoring environmental exposures with semen assays. (C14; Mice). 476546
- BENZOPYRROLES:**
See *INDOLES*
- BENZOQUINONES:**
See also *CHLORANIL*
- chemical reactions
Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- molecular orbital method
Dynamics of proton tautomerism in 2,5-dihydroxy-p-benzoquinone: a ¹³C NMR and CNDO study. (A12). 477749
- nuclear magnetic resonance
Dynamics of proton tautomerism in 2,5-dihydroxy-p-benzoquinone: a ¹³C NMR and CNDO study. (A12). 477749
- radiolysis
Pulse radiolysis of 4-tert-butyl-1,2-dihydroxybenzene and 4-tert-butyl-1,2-quinone. (B14). [Data] 486763
- BENZOYL PEROXIDE:**
- catalysis
Grafting onto polyester fibers. II. Kinetics of grafting of acrylic acid, acrylonitrile, and vinyl acetate onto polyester fibers. (B14). [Data] 486762
- BENZOYLAMINOACETIC ACID:**
See *HIPPURIC ACID*
- BENZOYLGLYCINE:**
See *HIPPURIC ACID*
- BENZOYLGLYCOCOLL:**
See *HIPPURIC ACID*
- BERKELEY BEVALAC:**
See *BEVALAC*
- BERKELEY ESCAR STORAGE RING:**
See *ESCAR STORAGE RING*
- BERKELEY SUPERHILAC:**
See *SUPERHILAC*
- BERKELEY SYNCHROCYCLOTRON:**
- research programs
Accelerator operations. (E16). 480411
- BERKELIUM:**
- fluorescence
Precision measurement of K-shell fluorescence yields in actinide elements. (A12). [Data] 467150
- BERKELIUM CHLORIDES:**
- reduction
Berkelium reduction up to the oxidation state Bk²⁺. (B13). 484081
- BERKELIUM COMPOUNDS:**
See also *BERKELIUM CHLORIDES; BERKELIUM FLUORIDES*
- reduction
Electrochemical reduction by radiopolarography of some transplutonium aqueous ions. (B13). [Data] 460568
- BERKELIUM FLUORIDES:**
- absorption spectra
Physical-chemical studies of transuranium elements. (B13). 472490
- BERKELIUM ISOTOPES:**
See also *BERKELIUM 242; BERKELIUM 247; BERKELIUM 249; BERKELIUM 250*
- BERKELIUM 242:**
- electron capture decay
New isotope ²⁴²Bk. (A34). 486483
- BERKELIUM 247:**
- energy levels
Proton states in ²⁴⁷Bk excited by ²⁴⁸Cm(α,t) reaction and ²⁴⁷Cf(electron capture) and ²⁵¹Es(α) decays. (A34). 490115

BERKELIUM 249:**beta decay**Composition analysis of a ^{249}Bk - ^{249}Cf mixture by X-rays. (B11). 493485**BERKELIUM 249 TARGET:****neutron reactions**

Evaluation and testing of actinide cross sections. (A34; Below 10 keV, differential and integral cross sections). [Data] 490126

Evaluation and testing of actinide cross section data. Final report. Research project number RP707-2. (A34; Summaries of research activities at Savannah River Laboratory). [Data] 465093

BERKELIUM 250:**beta-minus decay**Energy levels of ^{250}Cf populated in the β^- decay of ^{250}Bk . (A34). 468547**BERL SADDLES:**See *COLUMN PACKING***BERYL:****opacity**

Effect of ultraviolet radiation in the optical properties of natural beryl. (A13). 471436

photoluminescence

Luminescence properties of beryls. (A13). 492660

radioluminescence

Luminescence properties of beryls. (A13). 492660

regional analysis

A geo-economical study of beryl, specially the bery from the northeast (of Brazil). (B31, F10). 481920

solubility

Solubility of beryl in vanadium-containing flux. (B12). 468869

ultraviolet radiation

Effect of ultraviolet radiation in the optical properties of natural beryl. (A13). 471436

BERYLLIA:See *BERYLLIUM OXIDES***BERYLLIUM:****absorption spectroscopy**

Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370

acoustic emission testing

Correlation of acoustic emission and dislocation damping in beryllium. (B22, E17). 479402

adsorption

Adsorption of beryllium on (211) oriented tungsten single crystal: work function changes and energy losses of scattered electrons. (B22). 469289

Chemical separation of beryllium for Be-10 measurement. (B13). 490443

Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782

aircraft

Beryllium in aircraft brakes - a summary. (B22). 462922

auger electron spectroscopy

High-resolution LMM Auger spectra from argon implanted in Be and Si. (B22). 476353

biological effects

The nature of beryllium disease. (C21, C52). 463248

The problem of a threshold limit value of beryllium and its salts. (C52, C21). 463394

blistersRadiation blistering: recent developments. (B25, B22, A14; $^4\text{He}^+$). 460815**bonding**

The adhesive bonding of beryllium structural components. (B21). 462836

Adhesive bonding of beryllium. (B21). 462833

Diffusion bonding of beryllium. (B21). 462829

compression strength

Temperature effects on mechanical properties of CIP/HIP-1 beryllium. (B22). [Data] 462868

control

Lawrence Livermore Laboratory's beryllium control program for high-explosive test firing bunkers and tables. (C52, E14). 466306

corrosion

Some aspects of the corrosion and protection of fully dense and porous beryllium. (B15). [Data] 462812

corrosion resistance

Beryllium and its alloys. Chapter VIII. (B15). [Data] 462805

cracks

Metallographic quality control of welding and brazing. (B21, B22). 493897

On the occurrence and removal by thermal treatment of microcracking arising during the uniaxial tensile deformation of high purity beryllium. (B22). [Data] 462914

crystal growth

Substructural peculiarities of beryllium single crystals grown by different methods. (B22). [Data] 462880

crystal structure

The cell structure formation in deformed beryllium. (B22). [Data] 462883

Crystallite formation in beryllium. (B22). [Data] 462885

Substructural peculiarities of beryllium single crystals grown by different methods. (B22). [Data] 462880

deformation

Effect of structural factors and impurities on thermally activated deformation of beryllium. (B22). [Data] 462896

deuteron reactions

Monte Carlo calculation of d-Be neutron yields. (A34). 475793

dislocations

Correlation of acoustic emission and dislocation damping in beryllium. (B22, E17). 479402

ductility

Properties and yield behavior of hot-machined beryllium. (B22, B21). [Data] 462904

Strain rate and reverse loading effects on HIP-50 beryllium. (B22). [Data] 462854

Wrought high-purity beryllium products. (B22, B21). [Data] 462898

electric conductivity

Anomalous temperature dependence of the resistance of beryllium containing impurities. (B22). 494040

The high-temperature resistivity of beryllium. (B22). [Data] 462889

electrodeposition

Electrodeposition of Al, Be, W and Mo in non-aqueous solutions. (B12). 490414

A study of metallic coatings obtained by electrolysis of molten salts. (B12). 462694

electron-atom collisionsCalculation of ^2P shape resonances in Be and Mg. (A12). 467243

Electron-impact excitation of the beryllium isoelectronic sequence. (A12). 488807

electronic structure

Atomic coreless Hartree-Fock pseudopotential for atoms Li through Ne. (A17). [Data] 464736

erosion

Influence of surface morphology on the low energy hydrogen ion erosion yields of beryllium. (B25). 469438

fabrication

Analysis of beryllium parts for cosmos 954. (B22, E38). 465597

fatigue

Effect of some types of machining processes on beryllium fatigue strength properties. (B22, B21). [Data] 462853

fermi level

An analytic method for calculating stress induced changes in Fermi surfaces. (A13). 471583

fission neutrons

Depth-dose distribution for fission neutron spectra degraded through low Z shields. (A31). 468233

foils

Mechanical properties of two-layer Al-Be foils. (B21). 476228

fracture properties

The effects of porosity on the mechanical and physical properties of beryllium. (B22, B21). [Data] 462855

The inherent mechanical properties of beryllium. (B22). 462901

A joint fracture toughness evaluation of hot-pressed beryllium. (B22). [Data] 462864

fuel cans

Beryllium as a nuclear fuel cladding material. (B22). 462902

grain density

Metallographic observation of cleaved grains in polycrystalline beryllium. (B22, B21). 469185

grain refinement

Grain refinement of wrought beryllium products by alloying. (B21, B22). 462850

grain size

Effects of oxide and grain size in high-purity beryllium. (B21, B22). [Data] 462828

gyroscopes

The dimensional stability of gyroscope materials. (B22). 462888

health hazards

Hazards of beryllium and control measures. (C21). 479954

hot pressing

Hot isopressing beryllium - the effect of temperature and pressure. (B21, B22). [Data] 462843

impurities

Effects of oxide and grain size in high-purity beryllium. (B21, B22). [Data] 462828

india

Beryllium development programme in India. (B21). 462848

ion implantation

Interaction of implanted deuterium and helium with beryllium: radiation enhanced oxidation. (A14). 489239

Interaction of implanted deuterium and helium with beryllium: radiation enhanced oxidation. (A14, B25). 467600

Introduction to several solid state techniques for the study of ion implanted materials. (B21, B23). 465534

ion-atom collisions

Influence of retardation on the angular distribution of radiative electron capture. (A12). 477823

joining

Joining by plating: optimization of occluded angle. (B21, B22). 465537

machining

Abbreviated machining schedule for fabricating beryllium parts free of surface damage. (B21, B12). 486838

mechanical properties

Analysis of beryllium parts for cosmos 954. (B22, E38). 465597

milling

Observations on machining damage in beryllium. (B21). 462835

mirrors

Beryllium - an attractive material for optical applications. (B21, B22). 484132

HIP fabrication of experimental mirror substructure. (B21). 462840

Optical application of beryllium. (B22). 462860

monitoring

Environmental monitoring report for calendar year 1978. (B32, C15, C21). 487129

Lawrence Livermore Laboratory's beryllium control program for high-explosive test firing bunkers and tables. (C52, E14). 466306

- monochromators**
Beryllium single crystals for neutron monochromators. (A13, A31, E22). 462158
- monocrystals**
Selection of monocrystalline blocks in a beryllium crystal by neutron topography. (A13, E41). 488996
- muon probes**
 μ^- Knight shift in Be. (A13). 474806
Muon location and mobility in high-purity metals. (A13). 474838
- neutron diffraction**
Selection of monocrystalline blocks in a beryllium crystal by neutron topography. (A13, E41). 488996
- neutron transport**
Neutron wave propagation across an absorption discontinuity. (A31). 478582
- nitridation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- nuclear reaction analysis**
Application of the thermal (n, γ) reaction to elemental analysis. (B11). 468630
- oxidation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
Interaction of implanted deuterium and helium with beryllium: radiation enhanced oxidation. (A14, B25). 467600
- particle size**
The effect of powder particle size on the mechanical properties of hot pressed high purity beryllium. (B22, B21). [Data] 462915
- permeability**
Precipitation processes in implanted materials. (B22, B24). 465577
- phonons**
Beryllium phonon spectrum from cold neutron measurements. (A13). 492590
- photonuclear reactions**
High energy photoproduction of the rho and rho' vector mesons. (A22; R). 475661
- physical metallurgy**
Keynote paper - physical metallurgy. (B22). 462919
- physical radiation effects**
Electron irradiation damage in beryllium in a high voltage electron microscope. (B25). [Data] 462937
The electron microscopic observation of beryllium and its alloys irradiated at elevated temperature. (B25). [Data] 462950
Kinetics of gas porosity development during annealing of beryllium irradiated in reactor. (B25). 465736
Radiation blistering: recent developments. (B25, B22, A14; ^4He). 460815
- pion minus reactions**
Production of photons associated with the psi by 217-GeV/c π^- mesons. (A22). 475677
- pion minus-proton interactions**
Production of J/psi and psi' mesons in π^-N scattering at 150 GeV/c. (A22). 472060
- planning**
Confidence in beryllium. (B22). 462862
- plasma arc spraying**
Method for fabricating beryllium structures. (B21). 476227
The nature of plasma sprayed beryllium and the effect of heat treatment. (B21). 462834
- plasticity**
Microplasticity in hot-pressed beryllium. (B22). [Data] 462899
Plastic and superplastic deformation of fine-grained high-purity beryllium. (B22). [Data] 462878
- porosity**
Beryllium with controlled porosity. (B21, B22). 462841
- pressing**
The press forming and spinning of ingot sheet beryllium. (B21). 465541
- production**
The development, evaluation and manufacturing and capability of beryllium bar stock using the CIP-HIP process. (B21). 462839
- protective coatings**
Some aspects of the corrosion and protection of fully dense and porous beryllium. (B15). [Data] 462812
- proton-neutron interactions**
Inclusive two negative-pion production at 90° in the proton-nucleon c.m. system for nuclear targets and 28.5 GeV/c. (A22). 478525
- proton-proton interactions**
Inclusive two negative-pion production at 90° in the proton-nucleon c.m. system for nuclear targets and 28.5 GeV/c. (A22). 478525
- quantitative chemical analysis**
A non-chemical spectroscopic determination of atmospheric beryllium. (B33, C21, B11). 463017
The problem of a threshold limit value of beryllium and its salts. (C52, C21). 463394
Prompt response monitoring of beryllium in air. (C52, C21). 463391
- recrystallization**
Ultrafine-grained beryllium recrystallization. (B22). 484217
- safety**
Hazards of beryllium and control measures. (C21). 479954
- satellites**
Beryllium satellite thrust cone design, manufacture and test. (B21). 462846
Successful applications of fabricated beryllium structures on satellites. (B22, B21). 462874
- separation processes**
Chemical separation of beryllium for Be-10 measurement. (B13). 490443
- shales**
Uranium reconnaissance survey of British Lower Palaeozoic shales: trace elements related to clay mineralogy. (B31). 479566
- solubility**
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
Radiation-induced solute segregation and precipitation in alloys. (B25; 3.2 MeV $^{58}\text{Ni}^+$ at 425°C and 625°C). 469433
- sound waves**
New audio applications of beryllium metal. (B22). 462906
- space vehicles**
Fabrication methods for beryllium spacecraft components (Series 2). (B21). 462838
- spectra**
An application of Moessbauer spectroscopy on ^{57}Fe for investigation of Be. (B12). 478907
- spectroscopy**
Gain in sensitivity of direct spectral analysis of beryllium in aluminium-magnesium alloys. (B11). 493491
- sprayed coatings**
Method for fabricating beryllium structures. (B21). 476227
- sputtering**
Sputtering of Be and BeO by light ions. (B25, A14). [Data] 472775
- stacking faults**
Stacking faults in beryllium and dilute beryllium-copper alloys. (B22). [Data] 462851
- tensile properties**
The effect of powder particle size on the mechanical properties of hot pressed high purity beryllium. (B22, B21). [Data] 462915
Mechanical behavior of CIP/HIP-1 beryllium as a function of strain rate and stress history. (B22). [Data] 462863
Statistical study of the mechanical properties of beryllium. (B22). 462867
- texture**
Influence of surface morphology on the low energy hydrogen ion erosion yields of beryllium. (B25). 469438
- uses**
A review of present and future applications of beryllium. (B22). 462872
- vacancies**
The calculation of point and planar defect formation energies in beryllium. (B22). 462892
- weldability**
Metallographic quality control of welding and brazing. (B21, B22). 493897
- x-ray diffraction**
Influence of electron exchange energy on X-ray plasmon scattering by solids. (A32). [Data] 462599
- yield strength**
High-strength beryllium block. (B22, B21). [Data] 462897
Properties and yield behavior of hot-machined beryllium. (B22, B21). [Data] 462904
Strain rate and reverse loading effects on HIP-50 beryllium. (B22). [Data] 462854
Strength-ductility relationships in intermediate purity hot-pressed beryllium. (B22, B21). [Data] 462911
Wrought high-purity beryllium products. (B22, B21). [Data] 462898
- young modulus**
Temperature effects on mechanical properties of CIP/HIP-1 beryllium. (B22). [Data] 462868
- BERYLLIUM ALLOYS:**
See also BERYLLIUM BASE ALLOYS; HAVAR
- aging**
Effect of ultrasound on aging kinetic of Cu-Be alloy. (B22). 490612
- annealing**
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
- bubbles**
Helium gas bubble formation in binary and ternary alloys of vanadium irradiated by energetic Ni^{1+} ions. (A14, B25). 478165
- corrosion resistance**
Beryllium and its alloys. Chapter VIII. (B15). [Data] 462805
- electrodeposition**
A study of metallic coatings obtained by electrolysis of molten salts. (B12). 462694
- fuel cans**
Behaviour of A-1 fuel element cans under thermal and radiation-induced stresses. (B25). 487051
Beryllium as a nuclear fuel cladding material. (B22). 462902
- physical radiation effects**
The electron microscopic observation of beryllium and its alloys irradiated at elevated temperature. (B25). [Data] 462950
Radiation-induced solute segregation and precipitation in alloys. (B25; 3.2 MeV $^{58}\text{Ni}^+$ at 425°C and 625°C). 469433
- specific heat**
The specific heat of two cubic Laves compounds: TiBe_2 and ThMg_{13} . (A13). [Data] 481160
- welded joints**
Increase in strength of Al-Be-Mg alloy joints by heat treatment. (B21). 469053
- x-ray diffraction**
Study of small-angle x-ray scattering using two-crystal spectrometer. (B22, A13). 493931
- BERYLLIUM BASE ALLOYS:**
deformation
Effect of structural factors and impurities on thermally activated deformation of beryllium. (B22). [Data] 462896
- lattice parameters**
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251

- microstructure**
Stereological analysis of Lockalloy microstructures. (B22). [Data] 462916
- monochromators**
Beryllium single crystals for neutron monochromators. (A13, A31, E22). 462158
- phase diagrams**
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
- phase studies**
Beryllium-rich intermediate phases in beryllium alloys. (B22). [Data] 462903
- stacking faults**
Stacking faults in beryllium and dilute beryllium-copper alloys. (B22). [Data] 462851
- BERYLLIUM BORIDES:**
- density**
Analysis of beryllium parts for cosmos 954. (B22, E38). 465597
- BERYLLIUM BROMIDES:**
- chemical reactions**
Beryllium organic compounds and their chemical transformations. (B12). 490370
- BERYLLIUM CHLORIDES:**
- chemical reactions**
On complexing in binary chloride systems. (B12). 475935
- reduction**
Peculiarities of beryllium cathodic reduction from chloride melts. (B12). 484022
- BERYLLIUM COMPLEXES:**
- chemical preparation**
Oligomeric beryllium oxoethoxyacetates. (B12). 476059
- complexometry**
Coordination features and use of aspartic acid in chelatometry. (B11). 465274
- electronic structure**
Calculation of electronic structure of beryllium and aluminium acetylacetonate complexes by the CNDO/2 method. (B12). 493598
- raman spectra**
Raman spectra of aqua and hydroxo complexes of beryllium(II) in aqueous solution. (B12). [Data] 475967
- spectrophotometry**
Spectrophotometric study of complexing of beryllium, gallium, scandium and palladium with eriochrome cyanine R in the presence of cetyl trimethyl ammonium. (B11). 478866
- BERYLLIUM COMPOUNDS:**
See also BERYL; BERYLLIUM BORIDES; BERYLLIUM BROMIDES; BERYLLIUM CHLORIDES; BERYLLIUM FLUORIDES; BERYLLIUM OXIDES
- absorption spectroscopy**
Effectiveness of use of highly sensitive spectral analytical methods for microimpurity composition control of high pure substances. (B11). 478788
- biological effects**
The nature of beryllium disease. (C21, C52). 463248
The problem of a threshold limit value of beryllium and its salts. (C52, C21). 463394
- chemical bonds**
Energy of forbidden zone for inorganic compounds of the AB type. (B12; compounds of Cs, Sr, B, Be). 493563
- chemical preparation**
Kinetics and mechanism of chrysoberyl formation in the presence of MnO₂. (B12). 493701
- coprecipitation**
Coprecipitation of beryllium microamounts with tin (4) hydroxide in the presence of some hydrolyzed elements and edta. (B12). 486652
- health hazards**
Hazards of beryllium and control measures. (C21). 479954
- physical radiation effects**
Electron spin resonance study of hydrogen atoms trapped in ammonium fluoroberyllate. (A13). 464196
- quantitative chemical analysis**
Beryllium Be. (B11). 468606
The problem of a threshold limit value of beryllium and its salts. (C52, C21). 463394
- radioactivity logging**
Application of gamma-neutron logging to exploration for beryllium deposits. (B31). 490790
- safety**
Hazards of beryllium and control measures. (C21). 479954
- BERYLLIUM FLUORIDES:**
- electric conductivity**
Electric conductivity of NaF-BeF₃ melts. (B12). 475941
- materials testing**
Laser fusion project second annual report. (A14, B23). 464301
- phase diagrams**
Fusibility diagrams of LiF-BeF₃ and KF-UF₄ systems. (B16). 493850
- radiolysis**
Radiolysis of the LiF-BeF₂ system by prompt electrons. (B14). 479139
- BERYLLIUM IONS:**
- electronic structure**
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for $1 < \text{or} = Z < \text{or} = 4$. (A12). 464110
- energy levels**
Simple extended STO basis sets. helium. (A12). 464064
- excitation**
The Bethe approximation: where to draw the line. (A12). 481025
- ion implantation**
Deep levels in Be-implanted GaAs. (A13). 492714
- ion-atom collisions**
Charge-transfer cross sections for collisions of Li⁺, Be⁺, B⁺, and C⁺ ions with atomic hydrogen. (A12). 477814
Differential cross sections for charge transfer and excitation in low-energy Be⁺-He, Ne collisions. (A12). [Data] 462140
Quantum-mechanical phase jumps in collision-induced coherent excitation. (A12). 485390
- photoionization**
Two-channel relativistic random-phase approximation applied to the photoionisation of helium- and beryllium-like ions. (A12). 474614
- wave functions**
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for $1 < \text{or} = Z < \text{or} = 4$. (A12). 464110
- BERYLLIUM ISOTOPES:**
See also BERYLLIUM 10; BERYLLIUM 7; BERYLLIUM 8; BERYLLIUM 9
- hypernuclei**
Hypernuclei. (A22). 468205
- nucleosynthesis**
Nucleosynthesis of Li, Be, and B: contributions from the p + ¹⁶O reaction at 50–90 MeV. (A34). 475833
- BERYLLIUM MODERATED REACTORS:**
See also MARIA REACTOR
- BERYLLIUM MODERATORS:**
See BERYLLIUM
- BERYLLIUM OXIDES:**
- crystal growth**
Investigation into conditions of lanthanum beryllate crystallization. (B12). 468803
- emissivity**
Surface effects during exoelectron-emission of BeO ceramics. (A13, E41). 483280
- exoelectrons**
Adsorption-induced exoelectron maximum of BeO ceramics. (B23). 465696
- ion implantation**
Radiation induced detrapping of implanted deuterium in BeO by high energy ³He and proton irradiation. (A14). 492821
- physical radiation effects**
Thermal diffusivity of neutron-irradiated ceramics. (B25, A14). 487031
- quantitative chemical analysis**
Prompt response monitoring of beryllium in air. (C52, C21). 463391
- sputtering**
Sputtering of Be and BeO by light ions. (B25, A14). [Data] 472775
- surface coating**
Analysis of coatings and thin films using energetic ions. (B23, E41, E17). 479475
- thermal conductivity**
Ceramics for applications in fusion systems. (A14, B25). 467524
- thermal diffusivity**
Thermal diffusivity of neutron-irradiated ceramics. (B25, A14). 487031
- BERYLLIUM SILICATES:**
See also BERYL
- BERYLLIUM 10:**
- hypernuclei**
Formation of, and the lambda-bda-radiation from, the rho-shell hypernuclei. (A21). 464771
- isotope dating**
Radioisotope clocks in archaeology. (B31). 490783
- mass spectroscopy**
Beryllium-10 mass spectrometry with a cyclotron. (B11, B31). 468658
- nucleosynthesis**
Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
- sediments**
¹⁰Be in marine sediments, Earth's environment and cosmic rays. (B22, B33, A15). [Data] 462876
- stratigraphy**
¹⁰Be in marine sediments, Earth's environment and cosmic rays. (B22, B33, A15). [Data] 462876
- BERYLLIUM 10 TARGET:**
- cross sections**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ⁷Be and ¹¹C from targets with masses up to 40. (A33). 481502
- deuteron reactions**
Study of the ¹⁰Be(d, p)¹¹Be reaction at 25 MeV. (A34). 460366
- photoneuclear reactions**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ⁷Be and ¹¹C from targets with masses up to 40. (A33). 481502
- proton reactions**
Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
- BERYLLIUM 11 TARGET:**
- cross sections**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ⁷Be and ¹¹C from targets with masses up to 40. (A33). 481502
- photoneuclear reactions**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ⁷Be and ¹¹C from targets with masses up to 40. (A33). 481502

BERYLLIUM 7:

- Control of beryllium-7 in liquid lithium. (A14). 474934
cross sections
 Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ^7Be and ^{11}C from targets with masses up to 40. (A33). 481502
distribution
 Effects of beryllium-compounds on the hen. 2. Comm. (C21). 484565
ecological concentration
 Balance of the tropospheric ozone and its relation to stratospheric intrusions indicated by cosmogenic radionuclides. Technical progress report, 1 November 1977 - 30 June 1978. (C52, B33; ^7Be , ^{32}P , ^{31}P). 473253
electron capture decay
 Variations of exchange and overlap corrections to ^7Be electron capture radioactive decay probabilities in excited atoms and ions. (A33, A12). 490049
isotope production
 Spallation of aluminum by 300 GeV protons. (A34). 475822
nucleosynthesis
 Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
photoproduction
 Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ^7Be and ^{11}C from targets with masses up to 40. (A33). 481502
proton reactions
 Cross sections of ^7Be production in light nuclei disintegration by 0.66 and 1.0 GeV protons. (A34; ^7Be , ^{10}B , ^{11}B , ^{23}Na , ^{27}Al , Si, S targets). 486398
radiation monitoring
 EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
 Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] 476480
 Radioactivity in the lower stratosphere. (B33, B11). [Data] 476487
surface air
 On the origin of cosmogenic extremal concentrations in the surface air. (B33). 479738
- BERYLLIUM 8:**
energy levels
 Isovector radiative decays of the 16.6 to 16.9 MeV doublet in ^8Be . (A34; Radiative widths, E2 and M1, transitions, angular distributions, excitation function, conserved vector current theory). 460325
forbidden transitions
 Decays of the lowest $T < 2$ states in $A < 4N$ nuclei from ^8Be to ^{44}Ti . (A34). 486379
generator-coordinate method
 The Sp(2,R) model applied to ^8Be . (A33). 478600
rotational states
 Search for $\alpha\alpha^*$ rotational levels in ^8Be . (A34). 468576
sp groups
 The Sp(2,R) model applied to ^8Be . (A33). 478600
- BERYLLIUM 9:**
binding energy
 Validity and accuracy of separable potentials in three-body calculations. (A33). 475764
cluster model
 On the momentum distribution of alpha clusters in ^7Li and ^9Be nuclei. (A33). 493184
elastic scattering
 Elastic and inelastic scattering of deuterons by ^9Be in the energy range of 12.17 MeV to 14.43 MeV. (A34). [Data] 475850
energy
 Range and energy functions of interest in neutron dosimetry. (A31). 481445
hypernuclei
 Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
inelastic scattering
 Elastic and inelastic scattering of deuterons by ^9Be in the energy range of 12.17 MeV to 14.43 MeV. (A34). [Data] 475850
mass spectroscopy
 Beryllium-10 mass spectrometry with a cyclotron. (B11, B31). 468658
nuclear reaction analysis
 An investigation of nuclear reactions useful for the detection of beryllium. (A34, E42). 493453
nucleosynthesis
 Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
range
 Range and energy functions of interest in neutron dosimetry. (A31). 481445
- BERYLLIUM 9 REACTIONS:**
breakup reactions
 The break-up mechanism for heavy ion reactions in the case of (^9Be , ^8Be). (A33). 460277
carbon 12 target
 Neutron and alpha-particle transfer processes in the reaction $^{12}\text{C}(^9\text{Be}, ^8\text{Be})^{12}\text{C}$. (A34). [Data] 472263
compound-nucleus reactions
 Evidence for a positive parity decoupled band in ^{79}Rb . (A34). 490139

coulomb excitation

- The break-up mechanism for heavy ion reactions in the case of (^9Be , ^8Be). (A33). 460277
differential cross sections
 Neutron and alpha-particle transfer processes in the reaction $^{12}\text{C}(^9\text{Be}, ^8\text{Be})^{12}\text{C}$. (A34). [Data] 472263
elastic scattering
 $^{12}\text{C}(^9\text{Be}, ^8\text{Be})^{12}\text{C}$ (g.s., 4.43 MeV) reaction. (A34, A33). 490201
 Large angle elastic scattering of ^9Be ions on carbon isotopes. (A34). 468501
 The optical potential for ^9Be scattering: another anomaly. (A33). 490097
inelastic scattering
 $^{12}\text{C}(^9\text{Be}, ^8\text{Be})^{12}\text{C}$ (g.s., 4.43 MeV) reaction. (A34, A33). 490201
nuclear potential
 Optical potentials for light and heavy ion scattering. (A33). 493231
nuclear reaction kinetics
 Cluster transfer processes in the $^{12}\text{C}(^9\text{Be}, \alpha)^{12}\text{O}$ reaction. (A33, A34). 493177
 Scatterings and reactions of light heavy ions. (A34). 486460
optical models
 The optical potential for ^9Be scattering: another anomaly. (A33). 490097

BERYLLIUM 9 TARGET:

- alpha reactions**
 Excitation functions of the ^9Be (α ,n) ^{12}C , the ^{12}C (p,n) ^{13}N and the ^{13}N and ^{13}N (n,p) ^{12}C reactions. (A34). [Data] 460356
 Quasi-free ($\alpha, 2\alpha$) reaction induced by 140 MeV alpha particles on ^9Be , ^{12}C , ^{16}O , and ^{20}Ne targets. (A34; Cross sections, spectroscopic factors). [Data] 478782
argon 40 reactions
 Light fragment production and associated multiplicities from collisions of 1.85 GeV/nucleon ^{40}Ar . (A34, A22; Differential cross sections, reaction mechanisms). 468451
carbon 13 reactions
 Large angle elastic scattering of ^9Be ions on carbon isotopes. (A34). 468501
deuteron reactions
 Asymmetric decay of the ^7Li (4.63 MeV) excited state producing in the ^9Be (d,t) 2α reaction. (A34). 493437
 Intense sources of fast neutrons. (E16). 470370
 Neutron energy spectra of d (49) -Be and p (41) -Be neutron radiotherapy sources. (D15). 480298
electron reactions
 ee'p experiments at Saclay linear accelerator. (A34). 472230
 On the possible effect of relaxation on the quasi-elastic electron scattering in the (e, e')reaction. (A34). 493388
electroplating
 A simple method for preparing thin beryllium targets. (B11). 468619
fabrication
 Intense sources of fast neutrons. (E16). 470370
helium 3 reactions
 Mechanism of the $^9\text{Be}(^3\text{He}, \alpha)^8\text{Be}(\text{O})$ reaction and isoscalar giant resonances of ^{12}C . (A34). 472233
 On charge-exchange reactions in the region of mean energies. (A33). 478605
 Study on 50 MeV ^3He ion scattering and the ($^3\text{He}, \alpha$) reaction on ^9Be , ^{12}C and ^{13}C nuclei. (A34). 493380
iron 56 reactions
 Fragmentation of relativistic ^{56}Fe . (A34). 478784
neutron reactions
 (n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
 Charged-particle production from neutron-nucleus collisions at 200 GeV/c. (A22). 475662
 Elastic and inelastic scattering of fast neutrons by ^6Li , ^7Li , ^9Be , and ^{12}C . (A34; 7 to 15 MeV; differential cross sections). 460338
 Finite-range DWBA analysis of the $^9\text{Be}(n, \alpha)^8\text{He}$ reaction. (A33). [Data] 486296
 Neutron total cross-section measurements of ^9Be , ^{10}B , and ^{12}C from 1.0 to 14 MeV using the $^9\text{Be}(d, n)^{10}\text{B}$ reaction as a white neutron source. (A34, A31; 10 to 14 MeV). [Data] 490120
 Particle production from neutron-nucleus collisions at Fermilab energies. (A22; Rapidity, yields). [Data] 478536
 Study of low-mass p-bar-p pairs. (A22). 486129
oxygen 16 reactions
 On the fragmentation of the projectile in relativistic heavy-ion collisions. (A33). 490085
 Reactions induced by ^{16}O on ^9Be . (A34). 478714
 Reactions induced by ^{16}O and ^{18}O ions on ^9Be . (A34). 478715
pair production
 Nucleon-number dependence of inclusive dihadron production in proton-nucleus collisions at 400 GeV/c. (A22). 486139
photonuclear reactions
 High energy photoproduction of the rho and rho' vector mesons. (A22; Cross sections, $2\pi^0$ and $4\pi^0$ states, 30 to 160 GeV). [Data] 478534
 Ineffectiveness of the quasi-deuteron mechanism of interaction in yielding (γ , nucleon) reactions on complex nuclei above 150 MeV. (A33). [Data] 481501
 On absorption of photons by light nuclei. (A33). 493185
 On the quasiparticle photon absorption by ^9Be nuclei. (A34; ^1H , ^2H , ^3H , ^4He energy spectra). 493383
 Photopion production in the Fermi-gas model. (A33). [Data] 465024
 Search for semileptonic decays of photoproduced charmed mesons. (A22; 100 to 300 GeV). 478539
 Total photonuclear absorption cross section in the region of the Δ -resonance. (A34). 465077

- pion minus reactions**
 Particles produced in association with $\text{PSI}(3098)$. (A22; 217 GeV/c, cross sections). [Data] 475645
 Single-neutron emission induced by stopped π^- in 1p shell nuclei. (A34). 483834
 Study of elastic pion scattering from ^9Be , ^{28}Si , ^{58}Ni , and ^{208}Pb at 162 MeV. (A34; Total and differential cross sections, scattering yields, scattering amplitudes). [Data] 490144
- pion plus reactions**
 Study of elastic pion scattering from ^9Be , ^{28}Si , ^{58}Ni , and ^{208}Pb at 162 MeV. (A34; Total and differential cross sections, scattering yields, scattering amplitudes). [Data] 490144
- pion reactions**
 Pion double charge exchange. (A34; Review, cross sections, preliminary results). 465113
- proton reactions**
 (p,n) reaction at intermediate energy. (A34, A30; 62 to 135 MeV: angular distributions, DWIA analysis). [Data] 468492
 Cross-section measurements for $^9\text{Be}(p,n)^9\text{B}$, $^{15}\text{N}(p,n)^{15}\text{O}$ and $^{13}\text{C}(p,n)^{13}\text{N}$. (A34; 10 to 17 MeV). [Data] 472240
 Cross-section measurements for $^9\text{Be}(p,n)^9\text{B}$, $^{15}\text{N}(p,n)^{15}\text{O}$ and $^{13}\text{C}(p,n)^{13}\text{N}$. (A34; 10 to 16 MeV: angular distributions). [Data] 478710
 Intense sources of fast neutrons. (E16). 470370
 Neutron energy spectra of d (49) -Be and p (41) -Be neutron radiotherapy sources. (D15). 480298
 Nucleon-number dependence of inclusive dihadron production in proton-nucleus collisions at 400 GeV/c. (A22). 486139
 Optical potential for proton elastic scattering on ^9Be in the four-body approximation. (A33). 493230
 Production of hadrons at large transverse momentum in 200-, 300-, and 400-GeV p-p and p-nucleus collisions. (A22). [Data] 464877
 Proton total cross sections on ^1H , ^2H , ^4He , ^9Be , C and O in the energy range 180 to 560 MeV. (A34). 468558
 Quadrupole effect on 1 GeV proton elastic scattering on nuclei of p-shell. (A34). 468436
 Scaling properties of high-mass symmetric hadron- and pion-pair production in proton-beryllium collisions. (A22). [Data] 464901
 Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
 Two-particle quantum-number correlations in 400-GeV/c proton-nucleus collisions. (A22). 486138
- sample preparation**
 A simple method for preparing thin beryllium targets. (B11). 468619
- silicon 28 reactions**
 Resonant heavy-ion elastic scattering from s-d shell nuclei. (A34). 475837
- triton reactions**
 Analyzing power in the mass-six supermultiplet system. (A34). 483872
- BESSEL FUNCTIONS:**
algorithms
 On numerical Bessel transformation. (F51). 485251
b codes
 Accurate Bessel functions $J_{\text{sub}}(n)(z)$, $Y_{\text{sub}}(n)(z)$, $H_{\text{sub}}(n)\text{sup}(1)(z)$ and $H_{\text{sub}}(n)\text{sup}(2)(z)$ of integer order and complex argument. (F51). 485229
numerical solution
 On numerical Bessel transformation. (F51). 485251
- BETA BACKSCATTERING GAGES:**
 See *RADIOMETRIC GAGES*
- BETA BEAMS (ELECTRONS):**
 See *ELECTRON BEAMS*
- BETA BEAMS (POSITRONS):**
 See *POSITRON BEAMS*
- BETA DECAY:**
 (Neutron and nuclear beta decay.)
 See also *BETA-MINUS DECAY*; *BETA-PLUS DECAY*; *ELECTRON CAPTURE DECAY*
- axial-vector currents**
 Low-energy theorem for the weak axial-vector current in nuclear β -decay. (A33). 478659
- coulomb correction**
 Comment on Coulomb corrections to weak transition amplitudes. (A33). 478640
- ft value**
 Beta decay log ft values for transitional odd-mass nuclei. (A33). 483728
 One-pion exchange currents effect on the allowed beta-decays in the 1p shell nuclei. (A33). [Data] 472152
 Relations between (ft) reduced lifetimes for the beta transitions between rotational bands. (A33; $^{161}\text{Er} \rightarrow ^{161}\text{Ho}$, $^{167}\text{Ho} \rightarrow ^{167}\text{Yb}$, $^{177}\text{Yb} \rightarrow ^{177}\text{Lu}$ beta decay). 493260
- gamow-teller rules**
 Quenching of allowed Gamow-Teller β transitions in mirror nuclei. (A33). 468423
- ionization**
 Ionization by nuclear transitions. (A10). 485264
- mirror nuclei**
 Isospin symmetry breaking in A=8 mirror decays. (A33). 465010
- radiative corrections**
 Radiative corrections to the proton recoil spectrum in neutron decay. (A21). 460171
 Radiative corrections to β and μ decays in $\text{SU}(2)/\text{sub } L \times \text{U}(1)$ models involving 2n flavors. (A21, A11). [Data] 464857
- reviews**
 Subtleties and surprises: the contribution of β decay to an understanding of the weak interaction. (A33, A21). 472219
- second-class currents**
 Can we still strongly believe in weak magnetism. (A34). [Data] 472305
- sodium 27**
 Beta decay of ^{27}Na - ^{32}Na and their descendants. (A34). 481547
- sodium 32**
 Beta decay of ^{27}Na - ^{32}Na and their descendants. (A34). 481547
- BETA DECAY RADIOISOTOPES:**
 See also more specific entries as listed in the *INIS Thesaurus*.
- atmospheric precipitations**
 Fallout strontium-90 in the NPP Kozloduj area. (C52). 466343
- environment**
 NPP impact on environmental radioactivity. (C52). 463380
- BETA DETECTION:**
cherenkov radiation
 Model calculation of the point-spread-function of a β -radiation source produced by Cherenkov radiation in a partly covered transparent agent. (C62). 487731
- coincidence methods**
 A thin $4\pi\beta$ -counter operating by negative high voltage for the $4\pi\beta$ - γ coincidence measurement. (E41). 477373
- counting techniques**
 Total α and β counting of thick samples. (E41, B11). [Data] 474110
- crystal counters**
 Electrical properties and performances of natural diamond nuclear radiation detectors. (E41). 470847
- fission products**
 The osiris facility. (A34). 478688
- semiconductor detectors**
 A new solid detector of ionizing radiation. (E41). 470943
- si semiconductor detectors**
 A semiconductor detector of ionizing radiation. (E41). 463735
- tritium**
 Detector for the determination of tritium concentration in gases. (E41). 474070
- BETA DOSIMETRY:**
calibration
 Absorbed dose rate produced by natural uranium as a function of depth in tissue. (C55, E41). 463433
- energy dependence**
 Personnel β -dosimetry method for reducing energy dependence. (C21, E41, D15). [Data] 473052
- personnel dosimetry**
 Personnel dosimetry methods used by the national personnel dosimetry service in Czechoslovakia. (C55). 482280
- radiation dose units**
 Dosimetry. (C55). 482275
- spatial dose distributions**
 Absorbed dose comparison: positron emitters ^{11}C , ^{15}N , and ^{18}O versus gamma-ray emitters. (D15). 487795
- BETA PARTICLES:**
 (Emitted by nuclei.)
- absorption**
 Experimental study of thick-target bremsstrahlung spectrum of ^{32}P β radiation. (A32). 486169
- backscattering**
 On the radiography with backscattered beta-rays. (E11). 484820
- biological radiation effects**
 The response of *E. coli* $\text{Bsub}(s-1)$ to tritium- β particles under aerated and anoxic conditions. (C12). [Data] 463071
- images**
 On the radiography with backscattered beta-rays. (E11). 484820
- ionization**
 Ionization profile of beta radiation from radioactive cloud. (A12). 483227
- quality factor**
 New radiobiological findings bearing on the 1977 ICRP recommendations. (C14, C15; Sensitivity of mouse and monkey prenatal oocytes to chronic, low-dose, tritium exposure). [Data] 479821
- radioactive clouds**
 Ionization profile of beta radiation from radioactive cloud. (A12). 483227
- radioecological concentration**
 Environmental monitoring report, Sandia Laboratories 1978. (B32, B31, C21). 487134
- rbe**
 New radiobiological findings bearing on the 1977 ICRP recommendations. (C14, C15; Sensitivity of mouse and monkey prenatal oocytes to chronic, low-dose, tritium exposure). [Data] 479821
- BETA RATIO:**
scaling laws
 Analytic computation of minimum beta at ignition for various transport scaling laws. (A14). 467559
- BETA SOURCES:**
calibration
 Primary and interlaboratory calibration of beta sources using quartz as thermoluminescent phosphor. (E41). 482849
- environment**
 Radiological status of the ground-water beneath the Hanford Project, January-December 1978. (B32, C52; Monitoring of total beta sources, tritium, and nitrate). [Data] 487132
- fabrication**
 Ionization detector utilizing tritiated scandium with an acceptable tritium emanation rate at high temperature. (D22, B11; Patent). 466470
 Preparation of thin uniform beta-ray source. (D14). 482518
 Radiation sources and process. (D14). 482515

- leak testing** 491600
A dynamic leak testing method for radioactive sources used in chromatography. (C55). 480194
- radiation monitoring**
Analysis for radionuclides in SRC and coal combustion samples. Final report Nov 77-Jul 78. (B11). 486523
Environmental monitoring report for Pantex Plant covering 1978. (B33, C22, B32, C52, C21). [Data] 487136
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). 490877
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). 490877
Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). 479691
- radiation quality**
Measurements in internal microdosimetry with a wall-less proportional counter. (C11, C55). 460973
- specifications**
Ionization detector utilizing tritiated scandium with an acceptable tritium emanation rate at high temperature. (D22, B11; Patent). 466470
- uses**
Electrical charging of macroscopic particles using a beta source and electric and magnetic fields. (D23). 487811
Ionization detector. (D22). 494671
- BETA SPECTROMETERS:**
- fission fragments**
Spectrometer for detection of fission-fragment beta radiation. (E41). 495071
- magnetic fields**
Absolute measurements Brho for electrons in magnetic beta spectrometers. (E41). 495055
Measuring the magnetic field of the UMB-2 prismatic beta spectrometer by means of the nutation transducer with crossed coils. (E41). 495141
- solid scintillation detectors**
Spectrometer for detection of fission-fragment beta radiation. (E41). 495071
- BETA SPECTROMETRY:**
See **BETA SPECTROSCOPY**
- BETA SPECTROSCOPY:**
- doppler effect**
A kinematic Doppler correction method for high resolution in-beam conversion electron spectroscopy after (HI, xn) reactions. (E41). 485077
- internal conversion**
A kinematic Doppler correction method for high resolution in-beam conversion electron spectroscopy after (HI, xn) reactions. (E41). 485077
- BETA-MINUS DECAY:**
- cvc theory**
Beta-ray spectra of ^{12}B and ^{12}N and conserved vector current. (A33). 483772
- second-class currents**
Second-class current effects in the direct and inverse beta decays. (A33). 493240
- strength functions**
Investigation of beta strength functions by neutron and gamma-ray spectroscopy. I. (A34). 475828
- BETA-MINUS DECAY RADIOISOTOPES:**
(For specific terms, consult the Appendix.)
- beta detection**
A differential ionization chamber for the determination of small differences in decay rates of beta emitters. (E41). 492046
- BETA-PLUS DECAY:**
Ratio of electron capture to positron emission in heavy nuclei. (A33; nuclear structure effects, form factors). 486259
- corrections**
Exchange corrections to the axial vector decay of ^{15}O and ^{17}F . (A33). 478602
- cvc theory**
Beta-ray spectra of ^{12}B and ^{12}N and conserved vector current. (A33). 483772
- q-value**
Atomic excitation effects on nuclear resonances and Q values. (A33, A12). 472154
Q values in β^+ -decay, (p, n) and (^3He , t) reactions. (A33). 468307
- radiative corrections**
Electromagnetic corrections to epsilon/ β^+ ratios. (A33). 490070
- second-class currents**
Second-class current effects in the direct and inverse beta decays. (A33). 493240
- BETA-PLUS DECAY RADIOISOTOPES:**
See also more specific entries as listed in the *INIS Thesaurus*.
- BETA-W LATTICES:**
- energy-level density**
Density of states of ordered and disordered A-15 phase. (A13, A14). 488968
- neutron diffraction**
Phonon density of states in V_3Si . (A17, B24). 493039
- BETAINE:**
- carbon 14**
Mechanistic investigations by isotopic labeling. (B12). 478970
- labelling**
Mechanistic investigations by isotopic labeling. (B12). 478970
- BETATRON OSCILLATIONS:**
- cyclotrons**
Betatron oscillations in second order perturbation theory. (E16).
- magnetic mirror configurations** 491600
Cyclotron resonance in a magnetic mirror configuration field. (E16). 466551
- perturbation theory**
Betatron oscillations in second order perturbation theory. (E16). 491600
- BETATRONS:**
- beam extraction**
Experimental study of forced deformations of an electron orbit in betatrons. (E16). 466543
Study on the characteristics of the electron beam extracted from the PMB-6Eh betatron. (E16). 466547
- fabrication**
Construction and performance of a 5 MeV betatron. (E16). 482625
- internal bremsstrahlung**
The indications of betatron photon beam therapy. (C63). 494632
- magnetic fields**
On the analytical description of the betatron magnetic field. (E16). 473736
- on-line control systems**
35 MeV energy stabilization and switching system in a betatron. (E16). 494806
- photon beams**
Relative measurements of fast neutron contamination in 18-MV photon beams from two linear accelerators and a betatron. (C15, E16). 479897
- BETAVOLTAIC CELLS:**
- strontium 90**
A reference current source for the calibration of current measuring systems in ionisation chamber dosimetry. (D21, E41). 473583
- BETHE-SALPETER EQUATION:**
- quark-antiquark interactions**
On weak and strong binding limits of the Bethe-Salpeter equation. (A21). 489781
- BETHE-WEIZSAECKER CYCLE:**
See **CNO CYCLE**
- BETULA:**
See **TREES**
- BEVALAC:**
(A linking of the Superhilac to the Bevatron.)
- beam monitoring**
Computed tomographic reconstruction of beam profiles with a multi-wire chamber. (E16). 480407
- beam monitors**
Secondary emission monitors at the Bevatron-Bevalac. (E16, E41). 476964
- radioisotopes**
High purity radioactive beams at the bevalac. (E16). 480406
- research programs**
Accelerator operations. (E16). 480411
Relativistic heavy ions: experiments in progress and planned at the Bevalac of Berkeley. (A34). 486385
- secondary beams**
High purity radioactive beams at the bevalac. (E16). 480406
- Bevalac Radiotherapy Facility.** (E16). 480408
- BEVATRON:**
- beam monitors**
Secondary emission monitors at the Bevatron-Bevalac. (E16, E41). 476964
- research programs**
Accelerator operations. (E16). 480411
- BF3 COUNTERS:**
- calibration**
 $^{10}\text{BF}_3$ -paraffin neutron counter calibrated with six neutron sources. (E41). 470865
- dead time**
Dependence of temporal distribution function of detected events from BF_3 detector aging. (E41). 485123
- paraffin**
 $^{10}\text{BF}_3$ -paraffin neutron counter calibrated with six neutron sources. (E41). 470865
- plutonium**
A neutron well counter for plutonium assay in 200 l waste drums. (E41, E52). 477345
- statistics**
Dependence of temporal distribution function of detected events from BF_3 detector aging. (E41). 485123
- BHABHA ATOMIC RESEARCH CENTER:**
See **BARC**
- BHWR TYPE REACTORS:**
See also **HBWR REACTOR**
- BIBLIS REACTOR:**
- spent fuel storage**
Publication of the project of Rheinisch-Westfaelische Elektrizitaetswerk AG, Essen, to increase the capacity of the fuel storage pool of units A and B of Biblis nuclear power plant from five thirds of one core charge each to nine thirds of one core charge each. (E32). 466684
- BIBLIS-A REACTOR:**
See **BIBLIS REACTOR**
- BIBLIS-B REACTOR:**
- spent fuel storage**
Publication of the project of Rheinisch-Westfaelische Elektrizitaetswerk AG, Essen, to increase the capacity of the fuel storage pool of units A and B of Biblis nuclear power plant from five thirds of one core charge each to nine thirds of one core charge each. (E32). 466684

BIG ROCK POINT REACTOR:**aerial monitoring**

- Aerial radiological survey of the areas surrounding the Big Rock Point nuclear plant, Big Rock Point, Michigan. September 1975. (C52, B33). 480052

plutonium recycle

- Plutonium recycle R and D and operating experience at Big Rock Point. (F12, E31). 474351

reactor operation

- Plutonium recycle R and D and operating experience at Big Rock Point. (F12, E31). 474351

BIKINI:**contamination**

- Fission- and alpha-track study of biogeochemistry of plutonium and uranium in carbonates of Bikini and Eniwetok atolls. Final report. (E14). 487861

ecology

- Marine ecology. (C52, B32). 461167

BILATERAL AGREEMENTS:**radiation protection**

- Agreement between the Swiss Federal Council and the Government of the Federal Republic of Germany on Radiation Protection in Case of Emergency. (F23). 482945

BILE:**absorption**

- Bile salt malabsorption in the radiation syndrome. (C15). 469678

early radiation effects

- The role of gall secretion in radiation damage. (C14). 466126

BILE ACIDS:

See also **CHOLIC ACID**

blood serum

- Radioimmunoassay of primary bile salts in serum. (C62; Comparison with GLC). 487678

labelling

- The preparation of ^{125}I -labelled bile acid ligands for use in the radioimmunoassay of bile acids. (B13, C45). 468901

radioimmunoassay

- Radioimmunoassay of primary bile salts in serum. (C62; Comparison with GLC). 487678

thin-layer chromatography

- Simple method for simultaneous specific measurements in a mixture of radiolabelled bile acids. (B11, C45). 475868

BILE DUCTS:

See **BILIARY TRACT**

BILIARY TRACT:**biological radiation effects**

- Adenocarcinoma of the gallbladder in guinea pigs. (C14; Sex-dependent incidence following whole-body γ - or x irradiation). 461042

biomedical radiography

- Absorbed doses to patients and personnel from endoscopic retrograde cholangiopancreatographic (ERCP) examinations. (C15, C61). 494313

- Lecithine as an adjuvant in resorption of contrast medium in oral cholecystography. (C61). 473370

- Roentgeno-radioisotope investigations of gallbladder. (C62). 482381

contrast media

- Lecithine as an adjuvant in resorption of contrast medium in oral cholecystography. (C61). 473370

dynamic function studies

- /sup 99mTc-IDA hepatobiliary imaging following upper abdominal surgery. (C62, C31; IDA = acetanilide iminodiacetic acid). 494547

- Clinical comparison of /sup 99mTc-diethyl-iminodiacetic acid, /sup 99mTc-pyridoxylidene-glutamate, and ^{131}I -rose bengal in liver transplant patients. (C62, C31). 470122

- Hepatic clearance mechanism of /sup 99mTc-HIDA and its effect on quantitation of hepatobiliary function concise communication. (C62, C21, C31; HIDA = N(2,6-dimethylphenylcarbamoylmethyl) iminodiacetic acid; dogs). 473433

fluoroscopy

- Absorbed doses to patients and personnel from endoscopic retrograde cholangiopancreatographic (ERCP) examinations. (C15, C61). 494313

radioisotope scanning

- Roentgeno-radioisotope investigations of gallbladder. (C62). 482381

radiopharmaceuticals

- Biodistribution of technetium-99m biliary scanning agents based on pyridoxal; and Reply. (C62). 470073

- Technetium - 99m - labelled HIDA: a new radio-pharmaceutical for the dynamic research investigation of liver functions. (C62). 473416

scintiscanning

- /sup 99mTc-IDA hepatobiliary imaging following upper abdominal surgery. (C62, C31; IDA = acetanilide iminodiacetic acid). 494547

- /sup 99mTc-IDA imaging in the differential diagnosis of acute cholecystitis and acute pancreatitis. (C62). 470098

- Cholescintigraphy. (C62). 461419

- Clinical comparison of /sup 99mTc-diethyl-iminodiacetic acid, /sup 99mTc-pyridoxylidene-glutamate, and ^{131}I -rose bengal in liver transplant patients. (C62, C31). 470122

- Clinical evaluation of sup(99m)Tc-(Sn)-PI [sup(99m)Tc-(Sn)-pyridoxylidene isoleucine] in the various hepatobiliary disorders. (C62). 482375

- Comparison of /sup 99mTc-diethyl-iminodiacetic acid and ^{131}I rose bengal for hepatobiliary studies in liver-transplant patients: concise communication. (C62, C21). 473446

- First experiments with sup(99m)Tc-Pyridoxylidene-glutamate. (C62). 473488

- Hepatic clearance mechanism of /sup 99mTc-HIDA and its effect on quantitation of hepatobiliary function concise communication. 473488

- (C62, C21, C31; HIDA = N(2,6-dimethylphenylcarbamoylmethyl) iminodiacetic acid; dogs). 473433

- Pharmacokinetic and imaging studies of the hepatobiliary agent sup(99m)Tc-pyridoxal leucine. (C62). 470156

- Rapid and accurate diagnosis of acute cholecystitis with /sup 99mTc-HIDA cholescintigraphy. (C62; HIDA = dimethyl acetanilide iminodiacetic acid). 473493

- Study of the sup(99m)Tc-N(2,6-diethylacetamidido-) iminodiacetic acid complex in bile duct scintigraphy. (C62). 484731

tomography

- Infusion cholecystography in the diagnosis of acute cholecystitis. (C61). 473381

BILLITONITES:

See **TEKTITES**

BIMETALLIC CORROSION:

See **ELECTROCHEMICAL CORROSION**

BIMETALS:**electrical properties**

- Electrical response of a bimetallic junction to shock compression. (B22). 490559

shock waves

- Electrical response of a bimetallic junction to shock compression. (B22). 490559

BINARY ALLOY SYSTEMS:**diffusion**

- On applicability of permanent coefficient model to diffusion description in solid state. (B22). 476350

fcc lattices

- Monte Carlo study of an ordering alloy on an fcc lattice. (A13). 474866

monte carlo method

- Monte Carlo study of an ordering alloy on an fcc lattice. (A13). 474866

numerical solution

- Short order calculation in barium-cadmium and molybdenum-tungsten systems. (B22). 484195

optical properties

- The fabrication of multilayer X-ray mirrors. (E42). [Data] 495172

phase diagrams

- On the relation between phase diagrams of binary systems, d-elements of 4-7 groups - p-elements of 3-5 groups of Mendeleev's table. (B22; Binary alloy systems: d-elements of 4-7 groups-p-elements of 3-5 groups of Mendeleev's table). 484258

precipitation hardening

- Thermodynamics of precipitation systems. (B22, B21). 486938

superconductivity

- Concentration dependence of superconducting transition temperature of disordered alloys. (B22; Ta-Nb, Nb-V, V-Ta alloy systems are considered as examples). 494055

BINARY MIXTURES:**alcohols**

- A model for electron solvation in polar-nonpolar mixtures. (A12). 492515

diffusion

- Lattice and grain boundary diffusion of copper in γ -iron. (A13). 489020

electric fields

- The influence of external fields on cholesteric liquid crystal mixtures with positive dielectric anisotropy. (A13). 485584

hydrocarbons

- A model for electron solvation in polar-nonpolar mixtures. (A12). 492515

magnetic fields

- The influence of external fields on cholesteric liquid crystal mixtures with positive dielectric anisotropy. (A13). 485584

radiolysis

- The radiolysis of binary mixtures of tetrahydrofuran with benzene, thiophene, pyridine, and nitrobenzene. (B14). 465471

BINARY STARS:**absorption spectra**

- Absorption spectrum of the accretion column in VV puppis. (A15). 489651

annihilation

- Annihilation model of the QSOs. (A15). 478199

brightness

- Calculation of the ellipsoidal effect in the close binary systems with the single optical component. (A15). 489419

- Optical clues to the nature of Hercules X-1/HZ Herculis. (A15). 478247

cosmic x-ray sources

- Discovery of iron line emission in the Hercules X-1 low-state spectrum with HEAO-1. (A15). 478325

- High energy x-ray spectra of Cygnus XR-1 observed from OSO-8. (A15; 15 to 250 keV). 478231

- Joint observations of 4U1223-62 by the SAS-3 satellite and Columbia University proportional counter experiment on NASA rocket 26.054 UH. Final report, 1 Aug. 1977 - 31 Jul. 1978. (A15). 485914

- Measurement of x-ray iron line emission from Cygnus X-3 with the OSO 8 crystal spectrometer. (A15). 475320

- Observations of three binary x-ray sources: Cyg X-1, Cyg X-2, and 4U1813+50 (AM Her). (A15). 460113

- Photometric study of the x-ray pulsar 4U 1626-67. (A15). 475279

eclipse

- Fourier techniques for an analysis of eclipsing binary light curves. III. (A15). 489462

- Fourier techniques for an analysis of eclipsing binary light curves. IV. (A15). 489463

- Fourier techniques for an analysis of eclipsing binary light curves. I. (A15). 483467

- Fourier techniques for an analysis of eclipsing binary light curves. II. (A15). 483468
- LB 3459, an O-type subdwarf eclipsing binary system. (A15). [Data] 462450
- Photoelectric photometry of the eclipsing binary EE Aqr. (A15). 489603
- element abundance**
- Fundamental parameters and the helium content of eclipsing spectroscopic binaries. (A15). 475312
- emission spectra**
- Coordinated ultraviolet, optical, and radio observations of HR 1099 and UX Arietis. (A15). 475443
- The moving emission features in SS433 require a dynamical interpretation. (A15). 475333
- Spectral contamination in binary x-ray systems: gas flow effects on mass determinations. (A15). 467881
- far ultraviolet radiation**
- IUE observations of the symbiotic star CH Cygni during an active phase. (A15). 475284
- fourier analysis**
- An explicit expression of the Bsp(q)sub(n, m)-integrals in the Fourier analysis of eclipsing variables. (A15). 460021
- gamma radiation**
- γ rays from close binaries in the quiet stage. (A15). 475343
- general relativity theory**
- General-relativistic effects in binary systems. (A15). 475185
- giant stars**
- Supermetallicity and the strong-lined binary systems. (A15). 485860
- gravitational fields**
- Gravity-darkening in the Algol system. (A15). 467851
- hard x radiation**
- Hard x-ray variability in binary x-ray sources. (A15). 467902
- infrared radiation**
- Infrared photometry of eclipsing binary stars. (A15). 467733
- 1.2 and 2.2 micron light curves of W UMa type stars. (A15). 492916
- infrared spectra**
- Infrared observations of the black-hole candidate V861 Sco. (A15). [Data] 462447
- Steam in RX Puppis. (A15). 475187
- instability**
- A numerical study of the Roche and Darwin problems for polytropic stars. (A15). 481267
- magnetic stars**
- The stability of the stationary solutions in the planar magnetic-binary problem. (A15). 489582
- main sequence stars**
- On the Roche constants for main-sequence binaries. (A15). 460066
- mass**
- Binary frequency among the O-type stars. (A15). 483482
- Is the initial mass function of stars monotonous. (A15). 467913
- Mass estimates from optical-light curves for binary X-ray sources. (A15). 475180
- The O-type spectroscopic binary system HD 149404. (A15). 483523
- Significance of binaries with nearly identical components. (A15). [Data] 464616
- Spectral contamination in binary x-ray systems: gas flow effects on mass determinations. (A15). 467881
- mass spectra**
- Statistical model for the initial stellar mass function. (A15). 489630
- mass transfer**
- High energy x-ray spectra of Cygnus XR-1 observed from OSO-8. (A15; 15 to 250 keV). 478231
- Mass loss from early type stars. (A15). 460077
- Mass transfer in TV Cassiopeiae. (A15). 489438
- A study of mass flow in the massive spectroscopic binary HD47129. Final technical report, 1 January - 31 December 1977. (A15). 489412
- optical depth curve**
- Contact binaries of spectral type O. (A15). 483517
- The O-type spectroscopic binary system HD 93206. (A15). 483530
- optical modes**
- Optical pulsation from the HZ Her/Her X-1 system. (A15). 460035
- optical properties**
- Optical properties of binary X-ray sources. (A15). 475181
- orbits**
- Binary frequency among the O-type stars. (A15). 483482
- Evidence for noncircular orbits in x-ray binaries. (A15). 475307
- The O-type spectroscopic binary system HD 93206. (A15). 483530
- Period derivative of Cygnus X-3. (A15). 485896
- Spectroscopic binary orbits from photoelectric radial velocities. (A15). 481269
- photometry**
- The dwarf nova Z Chamaeleontis. (A15). 475182
- Early-type semidetached system SX Aurigae. (A15). 489435
- Electronographic UVB photometry of close visual double stars. (A15). 475373
- Fourier techniques for an analysis of eclipsing binary light curves. I. (A15). 483467
- Observational study of the eclipsing binary RZ Ophiuchi. (A15). 467749
- Photoelectric photometry of the eclipsing binary EE Aqr. (A15). 489603
- Starspots as the cause of the intrinsic light variations in RS Canum Venaticorum type stars. (A15). 464561
- SV Cam, an eclipsing binary containing a BY Draconis variable. (A15). 475299
- polarization**
- Periodic polarization variations in rotating astrophysical systems. (A15). 475352
- precession**
- Note on the spin precession effect in a relativistic binary system. (A15). 475245
- proper motion**
- Radial velocity study of SS Cygni and RU Pegasi. (A15). 475322
- pulsars**
- Photometric study of the x-ray pulsar 4U 1626-67. (A15). 475279
- pulsating variable stars**
- Observations of pulsating X-ray binaries 4U0900-40 and 4U1223-62. (A15). 489547
- pulsations**
- Optical pulsations from 4U 0900 - 40: Do they exist. (A15). 489595
- radial velocity**
- Radial velocity study of SS Cygni and RU Pegasi. (A15). 475322
- The spectroscopic binary γ 2 Velorum. (A15). 483536
- roche equipotentials**
- On the Roche constants for main-sequence binaries. (A15). 460066
- Partial separability of the Laplace equations in Roche coordinates. (A15). 467858
- Use of Roche coordinates in the problems of small oscillations of tidally-distorted stellar models. II. (A15). 467878
- spectra**
- The hot white dwarf HD 149499B. (A15). [Data] 462488
- Spectroscopic detection of HD 187299B. (A15). [Data] 462444
- spectrophotometry**
- Absorption spectrum of the accretion column in VV puppis. (A15). 489651
- The moving emission features in SS433 require a dynamical interpretation. (A15). 475333
- W UMa-type stars by Draconis and BW Draconis: photoelectric observations. (A15). 460147
- spectroscopy**
- The eclipsing binary U Cephei - new observations and solutions. (A15). 475345
- star accretion**
- On the structure of circumbinary accretion disks and the tidal evolution of commensurable satellites. (A15). 481283
- star evolution**
- Binary fission in damped rotating polytropes. (A15). 481266
- Common envelope binaries and mass loss. (A15). 483466
- Contact binaries of spectral type O. (A15). 483517
- Evolution of binary stars with mass loss. (A15). 483595
- Evolution of close binaries, with possible applications to massive X-ray binaries. (A15). 475298
- Evolution of low-mass close binary systems. VI. Population II W Ursae Majoris systems. (A15). 464686
- The evolutionary status of RS CVn binaries. (A15). 475356
- The formation of planetary nebulae with close binary nuclei. (A15). 489567
- HD 50896: another WR binary star. (A15). 483478
- The influence of stellar wind mass loss on the evolution of massive close binaries. (A15). 483584
- Mass flow and evolution of UW Canis Majoris. (A15). 483504
- Structure of contact binaries. III. Mass and energy flow. (A15). 489628
- star models**
- The possible black hole binary HD 152667. (A15). 471843
- Spectroscopic observations of CH Cygni during the 1977 - 1978 outburst. (A15). 485929
- Starspots as the cause of the intrinsic light variations in RS Canum Venaticorum type stars. (A15). 464561
- Statistical model for the initial stellar mass function. (A15). 489630
- Use of Roche coordinates in the problems of small oscillations of tidally-distorted stellar models. II. (A15). 467878
- steam**
- Steam in RX Puppis. (A15). 475187
- stellar flares**
- Gliese 867 - a multiple flare star system. (A15). [Data] 462425
- stellar radiation**
- On the polarization of optical radiation from X-ray binaries. (A15). 485845
- stellar winds**
- Common envelope binaries and mass loss. (A15). 483466
- Evolution of massive common envelope binaries and mass loss. (A15). 483582
- The influence of stellar wind mass loss on the evolution of massive close binaries. (A15). 483584
- Mass flow and evolution of UW Canis Majoris. (A15). 483504
- Mass loss from early type stars. (A15). 460077
- The mass loss rate of γ Velorum. (A15). 483539
- Wind models for zeta Orionis. (A15). 483543
- ultraviolet spectra**
- "Semitorrid" gas observed in the direction of γ^2 velorum and the gum nebula. (A15). 485847
- IUE observations of the symbiotic star CH Cygni during an active phase. (A15). 475284
- variable stars**
- Mass transfer in TV Cassiopeiae. (A15). 489438
- visible spectra**
- The binary orbit of HD 92740. (A15). 483537
- Mass loss effects in the spectrum of the O 6.5f binary HD 153919. (A15). 483489
- The O-type spectroscopic binary system HD 149404. (A15). 483523
- The spectroscopic binary γ 2 Velorum. (A15). 483536
- white dwarf stars**
- Time-resolved spectrophotometry of DQ Herculis: A wavelength-dependent phase shift in 71 second pulsations of He II λ 4686. (A15). 467781

- x radiation**
The detection of an X-ray outburst from the old nova GK Per. (A15). 475321
- x-ray sources**
Nature of Circinus X-1. (A15). 489515
Review of observations of compact sources. (A15). 475272
- x-ray spectra**
Bizarre spectrum of SS 433. (A15). 489576
Optical clues to the nature of Hercules X-1/HZ Herculis. (A15). 478247
X-ray observations of AM Herculis from OSO 8. (A15). 489443
- BINDERS:**
chemical composition
Yttria hydroxy-salt binders. (B24). 460799
decomposition
Yttria hydroxy-salt binders. (B24). 460799
thermal analysis
Yttria hydroxy-salt binders. (B24). 460799
- BINDING ENERGY:**
(For chemical and nuclear bonding. For bonding of materials, see also BONDING.)
See also **PAIRING ENERGY**
biochemical reaction kinetics
Kinetics of binding of carrier-free ^{67}Ga to human transferrin. (C21, C62, B13). 469764
hartree-fock method
Application of the Hartree-Fock-Pauli approximation for investigation of atomic inner-shell electron energy characteristics. (A12). 477771
neutrons
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236
nuclei
Binding energy of finite nuclei in Jastrow-Factor-Cluster method with applications in helium. (A33). 472153
partial waves
Contribution of high order partial waves to the binding energy of nuclear matter for model interactions. (A33). 483755
- BIOASSAY:**
comparative evaluations
Assays for chloramphenicol compared: radioenzymatic, gas chromatographic with electron capture, and gas chromatographic-mass spectrometric. (B11). 486541
Nerve growth factor in mouse and rat serum: correlation between bioassay and radioimmunoassay determinations. (C62, C31). 470165
Relationship between bioassay and radioimmunoassay estimates of prolactin in rat serum. (C62). 470129
gastric acid
The Zollinger-Elison syndrome. 1. Radioimmunoassay and bioassay in the diagnosis and the ultimate outcome of assay-supported clinical suspicion. 2. Results of long-term follow-up of suspected cases. (C62). [Data] 461418
lth
A pigeon crop sac radioreceptor assay for prolactin. (C45). [Data] 487348
nucleic acids
The scrapie agent: evidence against its dependence for replication on intrinsic nucleic acid. (C11). 463031
toxicity
 ^{75}Se -release: A short and long term assay system for cellular cytotoxicity. (C31, C21). 487321
triiodothyronine
The variation in serum triiodothyronine (T3) achieved during suppression testing in thyrotoxicosis. (C62). 463467
- BIOCENOSSES:**
See **ECOSYSTEMS**
- BIOCHEMICAL ACTIVITY:**
See **BIOCHEMISTRY**
- BIOCHEMICAL REACTION KINETICS:**
uridine
 ^3H -uridine incorporation in lymphocytes of externally irradiated rats. (C14). 494292
- BIOCHEMISTRY:**
isotope applications
Enriched isotope applications: biomedical field. (C62, C31, B13, D13; New stable isotopes for clinical use and use in biomedical research). 473419
research programs
Research report, for 1977-1978. (C60, C62). 473327
uses
Visualization of alcohol-induced rhabdomyolysis: a correlative radiotracer, histochemical, and electron-microscopic study. (C62; /sup 99m/Tc-HEDP (a diphosphonate)). 473477
- BIOGEOCENOSSES:**
See **ECOSYSTEMS**
- BIOLOGICAL DOSEMETERS:**
chromosomal aberrations
Status of human chromosome aberrations as a biological radiation dosimeter in the nuclear industry. (C15, C21). 469682
dose-response relationships
Potentialities of "biological dosimetry" of postirradiation changes in man blood formation. (C15). 479926
ionizing radiations
Biological dosimetry at exposure to ionizing radiation. (C55). 476757
skin
Thermographically visualized cutaneous reactions after irradiation with fast electrons. (C15, C55). 473004
- BIOLOGICAL EFFECTS:**
See also **ABSCOPAL RADIATION EFFECTS; BIOLOGICAL RADIATION EFFECTS; DELAYED RADIATION EFFECTS; EARLY RADIATION EFFECTS; GENETIC EFFECTS; GENETIC RADIATION EFFECTS; LOCAL RADIATION EFFECTS; OSTEOADIONECROSIS; RADIATION INJURIES; RADIODERMATITIS**
immune reactions
Examinations carried out in order to determine the effects of a radiotherapy on the immunity situation of tumor patients. (C15). 473006
radioprotective substances
Action of seleno-methionine on radical-scavenging activity and composition of lipids in murine hepatocytes. (C14). 466034
radiosensitizers
Ascorbate anion potentiates cytotoxicity of nitro-aromatic compounds under hypoxic and anoxic conditions. (C14, C63). [Data] 476560
- BIOLOGICAL FUNCTIONS:**
(Coordinate with descriptors for the organs or functions involved.)
lymphatic system
Experimental investigation with ^{198}Au colloid as to lymph communications between the retrobulbar space and the thyroid gland. (C21, C45). 491044
mathematical models
Mathematical simulation in estimation of absorption-excretion functions of liver. (C62). 494546
reticuloendothelial system
Hepatic reticuloendothelial function in the sub-totally nephrectomized rat model of chronic uremia. (C21, C62). 487313
testes
Testicular function following irradiation of the human prepubertal testis. (C15). 463213
trace amounts
High-bran diet scan. (C45; The applicability of PIXE to measurements of trace elements in medicine and biology). 482185
- BIOLOGICAL HALF-LIFE:**
gallium 67
Studies of gallium accumulation in inflammatory lesions. Pt. 4. (C21). 494328
tritium
Monitoring experiences with tritium in JAERI. (C52, C21). [Data] 491214
A rapid and quantitative method to determine the tritium content in DNA from small tissue samples. (C21). [Data] 491027
tritium compounds
Metabolism of tritiated molecules in rats. A study from the standpoint of radiological protection. (C21). [Data] 491025
- BIOLOGICAL LOCALIZATION:**
(The concentration of a specific material or a specific effect in a definite location of a biological system.)
dose-response relationships
Comparison of the distribution of diagnostic and thyroablative ^{131}I in the evaluation of differentiated thyroid cancers. (C62, C64, C21). 473466
- BIOLOGICAL MATERIALS:**
See also **BILE; BLOOD; BLOOD CELLS; BLOOD PLASMA; BLOOD PLATELETS; BODY FLUIDS; CEREBROSPINAL FLUID; ERYTHROCYTES; FECES; FOREST LITTER; LEUKOCYTES; LYMPHOCYTES; MILK; NEUTROPHILS; SALIVA; SEWAGE SLUDGE; URINE**
activation analysis
Multielemental trace analysis using cyclic activation and a low ^{12}C energy photon detector. (B11; Neutron reactions). 460425
biological radiation effects
Contrast and radiation damages in biological specimens: an introduction. (C11). 494259
cadmium compounds
Determination of cadmium in individual organs and divided shells of sea water clam by atomic absorption spectrometry with a carbon tube atomizer. (B11). 490302
chemical analysis
Uranium-233 analysis of biological samples. (B11). [Data] 472344
isotope dating
Carbon-14 dating: a comparison of beta and ion counting. (B31, B11). 476460
neutron activation analysis
A complex method for the neutron activation analysis of biological materials. (B11, C21). [Data] 468654
The determination of bromine in biological material by thermal neutron activation analysis. (B11). 472333
Determination of iodine in biological samples by resonance neutron activation. (B11). 483962
Epithermal neutron activation analysis of trace elements in biological materials. (B11). [Data] 478832
Neutron activation analysis of biological substances. (C31). 469833
Radiochemical activation analysis of arsenic, selenium and antimony in biological samples. (B11). [Data] 484000
nondestructive analysis
Multi-trace-element determinations in biological samples by means of instrumental neutron activation analysis and mono-element standards. (B11). 460406
nuclear magnetic resonance
Time-evolution of the entropy of fluctuations in some biological systems as investigated by NMR. (A13). 477907
quantitative chemical analysis
Automatic emission spectrometer for the determination of nitrogen-15. (B11). 493501
Determination of trace-level vanadium in marine biological samples by chemical neutron activation analysis. (B11; Neutron reactions). [Data] 472321
Recovery of iodine as iodine-125 from biological materials prior to assay. (B13, B11). [Data] 468912

- radiometric analysis**
Instrumentation for monitoring plutonium in the environment. (B33, C22, B11). 487154
- sample preparation**
Apparatus for freeze drying of biologic and sediment samples. (E42). 480795
- spin orientation**
Direct calculation of the orientational distribution function of partially ordered ensembles from the EPR line shape. (A10). 488532
- trace amounts**
Sampling and sample preparation methods for the analysis of trace elements in biological material. (B11). 486544
X-ray spectroscopy in trace elements analysis in biological specimens. (B32). 484375
- x-ray emission analysis**
The quantitative analysis of Bowen's kale by PIXE using the internal standard. (B11). 465265
- x-ray fluorescence analysis**
Probes. Progress report, October 1, 1977 - September 30, 1978. (B11, C44; X-ray fluorescence analysis of boll weevils for fingerprinting in monitoring eradication program). 486512
- x-ray spectroscopy**
X-ray spectroscopy in trace elements analysis in biological specimens. (B32). 484375
- BIOLOGICAL MODELS:**
An outline of methodological problems related to the assessment of genetic effects of radiation. (C14). 484522
- paramecium**
Paramecium aurelia as a cellular model used for studies of the biological effects of natural ionizing radiation or chronic low-level irradiation. (C12). [Data] 484490
- response modifying factors**
Characterization of radiation-chemistry molecular models in screening for radioprotectants and radiosensitizers. (C11). 463033
- synergism**
In vitro culture of pre-implanted mouse embryos. A model system for studying combined effects. (C11). 482002
- uptake**
Behaviour of tritium in the plant domain. (C21). [Data] 491030
- BIOLOGICAL PATHWAYS:**
enzymes
Effect of radiotherapy upon enzymes of the glycolytic and related pathways in human uterine cancer. (C15, C63). 487262
- fructose**
The metabolism of sorbitol and fructose in isolated chloroplasts of Santa Rosa plum leaves. (C41). 482122
- genetic variability**
Genetic and physiological factors affecting repair and mutagenesis in yeast. (C12). 494281
- glucose**
The effect of oxygen and paraquat on the ^{14}C -glucose oxidation of rabbit alveolar macrophages and lung slices. (C21). 463243
- oxidation**
The effect of oxygen and paraquat on the ^{14}C -glucose oxidation of rabbit alveolar macrophages and lung slices. (C21). 463243
- sorbitol**
The metabolism of sorbitol and fructose in isolated chloroplasts of Santa Rosa plum leaves. (C41). 482122
- BIOLOGICAL RADIATION EFFECTS:**
See also *ABSCOPAL RADIATION EFFECTS; DELAYED RADIATION EFFECTS; EARLY RADIATION EFFECTS; GENETIC RADIATION EFFECTS; LOCAL RADIATION EFFECTS; OSTEORADIONECROSIS; RADIATION INJURIES; RADIODERMATITIS*
Biological ionizing radiation effects. (C15). 479921
Bureau of Radiological Health Publications Subject Index. Annual report 1972-78. (C15, C60). 490986
The influence of radiation stimulated repair processes on the shape of dose-effect curves. (C13, C55). [Data] 461027
New trends in Photobiology. (C11, C12). 476498
- acid phosphatase**
The effect of hyperthermia and radiation on lysosomal enzyme activity of mouse mammary tumours. (C14, C63). [Data] 487203
- adrenaline**
Postradiation dynamics of blood and brain biogenic-amine contents in rabbits. (C14). 466000
- age dependence**
Age-related radiosensitivity of systems restoring calcium homeostasis. (C14). 466137
Features of developing organism response to low let and high let radiations. (C14). 463118
New approach to the analysis of survival data. (C11; Definition of parameters determined from data without regard to any assumed mechanism of action). 472924
- age groups**
Reparative regeneration of selected tissues in animals irradiated at various ages. (C14). 463125
- allium cepa**
Wave length dependence of UV action on oxygen uptake in epidermal cells of *Allium cepa* L. (C11). 469587
- animal growth**
Influence of caffeine on sparing effect of dose fractionation in housefly larvae. (C14). 476570
Post-embryonic development, fecundity and fertility of adults following irradiation of eggs of *Chilo partellus* (Swinn.) (Lep., Pyralidae). (C14). 476549
- anoxia**
Hydroxy-radiotherapy for tumors. (C14, C15). 466140
- antimitotic drugs**
Effects of selected cytostatics on hemopoietic stem cells in irradiated mice. (C14). 463107
- ascites tumor cells**
Immune mechanisms in Ehrlich ascites tumor growth in mice. (C14). [Data] 487221
- biological indicators**
Investigation of a valuable biochemical indicator in radiotherapy. Pt. 2. (C63). 494599
- biological models**
In vitro culture of pre-implanted mouse embryos. A model system for studying combined effects. (C11). 482002
- biological regeneration**
Limb regeneration from X-irradiated tails of *Ambystoma mexicanum* following transplantation of flank skin from region adjacent to hindlimb. (C14). 472959
Liver regeneration after partial hepatectomy in X-rayed rats. (C14). 466062
- biomedical radiography**
Radiation-risk in roentgendiagnosics of the gastrointestinal tract. (C15). 482077
- biosynthesis**
Effect of the radioprotectant adeturone on protein biosynthesis after single lethal X-ray exposure. (C14). 465981
Impairment of RNA and nuclear protein synthesis in organs of irradiated rabbits. (C14). 465977
Liver RNA biosynthesis in adrenalectomized rats. (C14). 472982
- blood count**
Gamma-ray effects on chick hemopoietic organs. (C14). 466096
Role of the exogenous DNA in postirradiation recovery processes. (C14). 466089
- blood formation**
Mechanisms of DMSO radioprotective action of hemopoietic tissues. (C14). 466142
- blood serum**
Effects of prolonged irradiation on rat serum proteins. (C14). 466019
- bone marrow**
Bone-marrow damage in dogs after whole-body irradiation under hypoxic conditions. (C14). 466028
- bone marrow cells**
Gamma-ray effects on chick hemopoietic organs. (C14). 466096
- bone tissues**
Age-related radiosensitivity of systems restoring calcium homeostasis. (C14). 466137
Molecular metabolic mechanisms of bone radiation damage and its modification. (C14). 465993
- brain**
Morphology and cytochemistry of the system of sight in irradiated rabbits. (C14). 465996
Study of early neuroradiobiological effects in the process of hemilateral brain irradiation in rabbits. (C14). 463148
X-irradiation of mice in the early fetal period. Pt. 2. (C14). 482034
- capillaries**
Computer-aided analysis of capillary damage dynamics following local brain irradiation. (C14). 463172
Study of postirradiation changes in local blood flow using labelled albumin. (C14). 466047
- cartilage**
Effects and side effects of radiosynovectomy with yttrium 90 on rheumatic joint cartilage. (C64, C21). 484767
- cell cycle**
Flow-microfluorometric analysis of cell cycle progression after exposure to X- or Co- γ -rays and negative pi-mesons. (C11). 460999
- cell membranes**
Influence of oxidation reaction on biomembrane-lipid yield and renewal rates in exposure to radiation and protective antioxidants. (C11, C14). 465870
- cell nuclei**
Radiation effects on structure and function of nuclear membranes. (C14, C11). 466061
- cell proliferation**
Participation of granulosa cell populations in radiation response of the follicular apparatus in the ovary of mice. (C14). 487226
Radiation-induced changes in cell proliferation kinetics in uterine cervix cancer. (C15, C63). 482076
- cerebral cortex**
Morphologic and cytochemical response of rabbit optical cortex on the side of irradiation during ECG depression. (C14). 465997
- cerebrum**
Pace changes in biopotentials and spectral-coherent relations of rabbit brain cortex and subcortical structures after total-body or local head irradiation. (C13). 465951
- chromosomal aberrations**
Chromosomal estimation of radiation effects in man. (C11). 481987
- chronic irradiation**
Adeturone effects under prolonged irradiation conditions. (C14). 463153
- collagen**
Carbohydrate-protein compounds in assessing dose-response to local irradiation of rats. (C14). 463145
- colony formation**
Distribution of size of colonies for detection of damages due to X-ray and cytostatics induced damages. (C11). 469600
- comparative evaluations**
Evidence for morphologic changes in the cerebellum and gonads of irradiated animals. (C14). 465978
Functional and morphologic changes in the brain of irradiated guinea pigs. (C14). 463123

- Interspecific comparison of the effects of continuous ionizing radiation on the primitive mammalian stem germ cell. (C11; Mice, rats, guinea pigs, gamma radiation). 460964
- The relation between death rate of irradiated mice and damage to hemopoietic tissue. (C14). 466117
- corticosterone**
- Bioenergetic processes in mitochondria and response of the system hypothalamus - hypophysis - adrenals to low doses of ionizing radiation. (C14). 466116
- Radiation-induced brain and myocardium biochemical shifts and their underlying neurohormonal mechanisms. (C14). 465979
- cystamine**
- Changes in urine excretion of o-iodobenzoic(¹²⁵I) acid and its conjugates in rats after irradiation and after cystamine administration. (C14). 482044
- dopamine**
- Radiation-induced brain and myocardium biochemical shifts and their underlying neurohormonal mechanisms. (C14). 465979
- dose rates**
- Effects of prolonged irradiation on rat serum proteins. (C14). 466019
- dose-response relationships**
- Radiation effects for segment III beagles as manifested by birthweight data. (C14). [Data] 479811
- Radiation-induced DNA damage in V79 spheroids and monolayers. (C11, C31; γ rays; cultured Chinese hamster (V79) cells). 476502
- Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346
- dynamic function studies**
- Study of early neuroradiobiological effects in the process of hemilateral brain irradiation in rabbits. (C14). 463148
- ehrlich ascites tumor**
- Timing of radiation therapy in combination with hyperthermia. (C14, C63). 461035
- embryos**
- Ionizing radiation effects on rabbit hepatic cell membranes during embryogenesis. (C14). 466060
- enzymes**
- Bioenergetic processes in mitochondria and response of the system hypothalamus - hypophysis - adrenals to low doses of ionizing radiation. (C14). 466116
- Radiation effects on the parotid gland of mammals. Pt. 3. (C15). 491007
- epidemiology**
- Effects on populations of exposure to low levels of ionizing radiation: implications for nuclear energy and medical radiation. The 1979 report of the Advisory Committee on the Biological Effects of Ionizing Radiation (The BEIR Report). (C15). 487248
- erythrocytes**
- Erythrocyte electrophoretic mobility after in vivo irradiation in rats. (C14). 463187
- experimental neoplasms**
- Depression of DNA synthesis rate following hyperthermia, gamma irradiation, cyclotron neutrons and mixed modalities. (C14, C30). 466135
- In vivo analysis of the effects of cis-dichloro-diamine-platinum-II and cobalt-60 gamma radiation on a solid tumor (adenocarcinoma EO 771). (C14). 469659
- external irradiation**
- Metabolic features and biological effects of strontium-89 administered intratracheally with additional external exposure to radiations of varying intensity. (C21, C14). 466220
- fertility**
- Post-embryonic development, fecundity and fertility of adults following irradiation of eggs of *Chilo partellus* (Swin.) (Lep., Pyralidae). (C14). 476549
- fission products**
- Biological effect of radionuclides-products of nuclear fission. (C21). 476623
- food**
- Progress in food irradiation: Belgium. (C43). 482153
- Project short-term testing makes headway. (C43). 482137
- Research coordination meeting - Wholeness of food irradiation processing. (C43). 482140
- germ cells**
- Repopulation kinetics and radiation response of spermatogonial stem cells in the mouse during recovery of the seminiferous epithelium after irradiation with fission neutrons of 1 MeV mean energy. (C11). 460945
- glucuronidase**
- The effect of hyperthermia and radiation on lysosomal enzyme activity of mouse mammary tumours. (C14, C63). [Data] 487203
- heat treatments**
- Chemical radiosensitization of mammalian cells growing in vitro. (C11). 469589
- heavy ions**
- Radioprotection by DMSO of mammalian cells exposed to X-rays and to heavy charged-particle beams. (C11). 465881
- helium-neon lasers**
- Stimulating effect of helium-neon laser rays on skeletal muscle regeneration after X-ray exposure. (C14). 463126
- histology**
- Histological and stereological analysis of some endocrine and lymphatic organs of mice after whole-body irradiation. (C14). 482029
- hormones**
- Features of selected endocrine organ response to experimental radiation disease and to its combination with trauma. (C14). 466099
- Role of RES functional state (blockage or stimulation) in production of hormonal regulators of hemopoiesis under radiation damage conditions. (C14). 463106
- host-cell reactivation**
- Action spectra for the ultraviolet and visible light inactivation of phage T7: effect of host-cell reactivation. (C12). 461020
- hypothesis**
- Contemporary biophysical theory of the action of different radiation types: basis and evidence. (C10). 465866
- immune reactions**
- Cellular immune response and concentrations of serum immunoglobulins in patients with Hodgkin's disease. (C15). 473026
- Immunological problems of radiotherapy and adjuvant chemotherapy in breast cancer. (C15). 484548
- Pre-operative irradiation and tumor-specific immune response in hypernephroid renal carcinoma. (C15, C63). 487244
- immunity**
- Influence of whole body irradiation on intraperitoneal immunity in a syngeneic mouse lymphoma system. (C14). 482023
- inactivation**
- Contrasting oxygen-effects in the inactivation of ribonuclease A by N_3 , $(\text{SCN})_2$ and OH radicals. (C11). 465921
- indexes**
- Bureau of Radiological Health Publications Index, August 1978. Report for 1953 - 1978. (C15). 487237
- infrared radiation**
- Biological effects of infrared and ultraviolet radiations. (C15). 463204
- injuries**
- Features of selected endocrine organ response to experimental radiation disease and to its combination with trauma. (C14). 466099
- intratracheal administration**
- Metabolic features, chemical state, and biological effects of cerium-144 administered intratracheally with additional external exposure to radiation. (C21, C14). 466221
- iron 55**
- Frozen-storage cytocide as a tool for low dose radiation research. (C14). 461054
- kalikrein**
- Kalikrein-quinine system changes in rats and guinea pigs following total body irradiation. (C14). 463178
- kidneys**
- Studies on cellular immunity in patients with renal carcinoma: radiation-induced inhibition of leukocyte migration. (C15, C63). [Data] 487272
- kinins**
- Kalikrein-quinine system changes in rats and guinea pigs following total body irradiation. (C14). 463178
- let**
- Prediction of biological effect of pion irradiation using the star distribution to determine the high LET dose. (C11, C55). 465896
- leukemia**
- Iatrogenic leukemia. (C15). 473014
- life span**
- A competing risk model for reduction in life expectancy from radiogenic cancer. (C15, C52). 482064
- Influence of dose, dose rate and radiation quality on radiation carcinogenesis and life shortening in RFM and BALB/c mice. (C14). [Data] 482054
- liver**
- Effects of prenatal irradiation on postnatal liver development. (C14). 466091
- Liver RNA biosynthesis in adrenalectomized rats. (C14). 472982
- local irradiation**
- Dose dependence of enzyme activity changes in locally irradiated rats. (C14). 463146
- low dose irradiation**
- Radiation-induced developmental anomalies in mammalian embryos by low doses and interaction with drugs, stress and genetic factors. (C14). [Data] 482038
- lymph nodes**
- Lymphatic node cellular response to whole-body irradiation in immunized or non-immunized calves. (C14). 466029
- lymphocytes**
- ³H-uridine incorporation into rat lymphocytes following gamma-ray exposure and at long terms after internal contamination with radiocerium (¹⁴⁴Ce-¹⁴⁴Pr). (C14, C21). 465974
- Dynamics of nuclear changes in peripheral lymphocytes from patients undergoing radiotherapy. (C15). 466156
- Radiation induced chromosome aberrations and the poisson distribution. (C11). 476503
- mathematical models**
- Mathematical model, and its biological interpretation, for radiation dose dependence of bone-marrow hemopoietic activity. (C14). 465999
- mca**
- Dynamics of changes in duodenal epithelium cell populations in irradiated and mercaptoethylamine-pretreated mice. (C14). 466077
- meat**
- Radiation-induced changes in the patterns of free ninhydrin-reactive substances of meat. (C43). 476644
- mechanical properties**
- Immediate mechanical reactions of isolated human detrusor muscle on X-irradiation. (C11). 472916
- metabolism**
- Radiation effects on testes. Pt. 15. (C14). 469637
- mice**
- The effect of X-irradiation on the fertility and the induction of meiotic chromosome rearrangements in mice and their first

- generation. (C14). 461056
 Frozen-storage cytotoxic as a tool for low dose radiation research. (C14). 461054
- microwave radiation**
 Interaction of radiofrequency and microwave radiation with living systems. (C11, C12, C50). 465930
- muscles**
 Hypophysectomy-induced inhibition of augmented acetylcholine responses of the rat bowel following adrenalectomy and/or whole body irradiation. (C14). 476572
 Immediate mechanical reactions of isolated human detrusor muscle on X-irradiation. (C11). 472916
- natural radioactivity**
 Bone-marrow status of muriform rodents dwelling in high natural radioactivity areas. (C14). 466055
- noradrenaline**
 Postirradiation dynamics of blood and brain biogenic-amine contents in rabbits. (C14). 466000
 Radiation-induced brain and myocardium biochemical shifts and their underlying neurohormonal mechanisms. (C14). 465979
- nucleic acids**
 Influence of adeturone on blood nucleic acid contents in mice exposed to fast neutrons. (C14). 466120
- nucleotides**
 Characteristics of nucleotide metabolism in experimental animal tissues following exposure to low-level doses of ionizing radiation. (C14). 465995
- ovaries**
 New facets in murine ovarian radiobiology. (C14). 466086
 Participation of granulosa cell populations in radiation response of the follicular apparatus in the ovary of mice. (C14). 487226
- oxygen enhancement ratio**
 The dependence of the oxygen effect on genetically determined repair processes. (C12). 461017
 The molecular and cellular basis of the oxygen effect. (C11). 460976
- parathyroid glands**
 Radiation effects on the parotid gland of mammals. (C14). 487207
- pathogenesis**
 Radiation damage and recovery in the multi-cellular plant organism. (C13). 465962
- phospholipids**
 Phospholipid changes due to irradiation. (C11). 484474
- pineal gland**
 Evidence from preliminary experiments on epiphysis implication in the outcome of radiobiological rat testis lesions. (C14). 466085
- plant growth**
 Effect of γ -irradiation on the growth of *Sorghum vulgare*. (C41, C13). 463309
- prenatal irradiation**
 Effects of prenatal irradiation on postnatal liver development. (C14). 466091
 Egg weight and gamma-rays effects. Pt. 1. (C11). 490933
 X-irradiation of mice in the early fetal period. Pt. 2. (C14). 482034
- proteins**
 Ionizing radiation effects on structure and function of bacterial cell membranes at various stages of development. (C12). 465941
 Some serum protein changes in rats during continuous irradiation. (C14). 465980
- radiation doses**
 Ionizing radiations: effects and sources. (C55). [Data] 491260
- radioprotective substances**
 Adeturone protection in combined exposure of the body to radiological and chemical factors. (C14). 463149
 Effect of the radioprotectant adeturone on protein biosynthesis after single lethal X-ray exposure. (C14). 465981
 Influence of adeturone on dose dependence and dynamics of blood nucleic acids in irradiated animals. (C14). 487223
 Influence of adeturone on blood nucleic acid contents in mice exposed to fast neutrons. (C14). 466120
 Mechanisms of DMSO radioprotective action of hemopoietic tissues. (C14). 466142
- radiotherapy**
 Effects and side effects of radiosynovectomy with yttrium 90 on rheumatic joint cartilage. (C64, C21). 484767
- response modifying factors**
 Alteration by lung lavage of the biological effects from inhalation of a relatively insoluble form of ^{144}Ce by beagle dogs. (C21). 469779
 Effects of acceleration, adeturone, and ionizing radiation on peripheral blood and functional ability in mice. (C14). 463160
 Study on combined exposures of the body to radiological and chemical factors. (C14). 463150
- reticuloendothelial system**
 Role of the exogenous DNA in postirradiation recovery processes. (C14). 466089
- reviews**
 Ionizing radiation applications in medicine and biology. (C15). 487270
- risk analysis**
 Public health aspects of radiation. (C52). 491177
- serotonin**
 Postirradiation dynamics of blood and brain biogenic-amine contents in rabbits. (C14). 466000
 Radiation-induced brain and myocardium biochemical shifts and their underlying neurohormonal mechanisms. (C14). 465979
- sialic acid**
 Changes in blood and urinary sialic acid contents after whole-body irradiation in rats and guinea pigs. (C14). 463186
- soft x radiation**
 The conflict between the biological effects of ultrasoft X-rays and microdosimetric measurements and application. (C11, C55). 460968
- spatial dose distributions**
 Comparison of biological effects between uniform and nonuniform exposure to sublethal radiation doses. (C14). 465970
- spectroscopy**
 Distribution of size of colonies for detection of damages due to X-ray and cytostatics induced damages. (C11). 469600
- spermatogenesis**
 Genetic radiosensitivity in mice. I. Testis morphology and genetic effects after chronic gamma irradiation. (C14). 463188
- spleen**
 Influence of X-rays on the B- and T-cells in the spleen of mice and their reaction on mitogenic substances. (C14). 469634
- stem cells**
 Effects of ^{228}Ra and X-irradiation on the proliferative and differentiative ability of mouse hemopoietic stem cells. (C14, C21). 466115
- stimulation**
 Tube growth stimulation of pine pollen by low doses of irradiation. (C11). 476522
- strand breaks**
 DNA-repair investigations in lymphocytes of persons living in elevated natural background radiation areas (Badgastein). (C15). 479884
- synergism**
 Influence of caffeine on sparing effect of dose fractionation in housefly larvae. (C14). 476570
 Interaction of chemical mutagens and radiation in the induction of malignancy. (C11). 481989
 Radiation-induced developmental anomalies in mammalian embryos by low doses and interaction with drugs, stress and genetic factors. (C14). [Data] 482038
- temperature dependence**
 Effects of interstitial irradiation alone, or in combination with localized hyperthermia on the response of a mouse mammary tumor. (C14). 469652
 Hyperthermia-considerations on heating modalities and clinical applications. (C15). 472999
 Modification of radiation damage to conifer seeds. (C13). 465968
 Problems on hyperthermia in current experimental cancer therapies. (C11). 463042
 Reduction of radiation damage in an electron microscope with a superconducting lens system. (C11). 490912
- temporal dose distributions**
 Biological effects of internal ^{232}Th , ^{224}Ra and ^{144}Ce as a function of dose accumulation rate. (C21). 463226
- testes**
 Evidence from preliminary experiments on epiphysis implication in the outcome of radiobiological rat testis lesions. (C14). 466085
 Radiation effects on testes. Pt. 15. (C14). 469637
- testosterone**
 Changes in blood plasma levels of testosterone, follicle stimulation hormone and luteinizing hormone, after single exposure of rats to a range of gamma-ray doses. (C14). 466050
- thermography**
 Thermographically visualized cutaneous reactions after irradiation with fast electrons. (C15, C55). 473004
- thyroid**
 Radiation effects on developing chick embryo thyroids. (C14). 463104
- ultrastructural changes**
 Ultrastructural features of response to chronic gamma radiation in tissues of varying radiosensitivity. (C14). 466095
- ultraviolet radiation**
 Biological effects of infrared and ultraviolet radiations. (C15). 463204
- BIOLOGICAL RECOVERY:**
See also BIOLOGICAL REGENERATION; BIOLOGICAL REPAIR; HEALING; HOST-CELL REACTIVATION; PHOTOREACTIVATION
- brain**
 Physiological mechanisms of pyrimetin action on the CNS after irradiation. (C14). 463120
- radiation injuries**
 Literature review on the question of recovery after whole body irradiation. (C14, C15). 469643
- radioprotective substances**
 Substances stimulating recovery for radiation injury. (C14). 472983
- stem cells**
 Recovery of repopulation ability and residual damage in the hemopoietic stem cell compartment of mice following gamma irradiation. (C11). 469602
- BIOLOGICAL REGENERATION:**
acute irradiation
 Morphology of the process of regeneration at cellular and subcellular levels in healing of brain tissue injuries under total-body irradiation conditions. (C14). 466104
biological localization
 Tumour regrowth after irradiation. (C14, C63). [Data] 463192
biological radiation effects
 Regeneration of the epidermis and basement membrane of the planarian *Dugesia japonica* after total-body x irradiation. (C14). 479832
- cell cycle**
 Neurotrophic and X-ray blocks in the blastemal cell cycle. (C14). 490963
 [Data]
- control**
 Growth regulation in X-irradiated mouse skin. (C14). 463130

- muscles**
Stimulating effect of helium-neon laser rays on skeletal muscle regeneration after X-ray exposure. (C14). 463126
- radioimmunoassay**
Examination of alpha-fetoprotein concentration of blood serum in chronic diffuse hepatic diseases. (C45). 491100
- radiosensitivity**
The problem of increase in radioresistance of regenerating tissues. (C14). 463175
- receptors**
Uptake of ³H-thymidine by the receptor cell populations after injury of the sensory nerve fibres. (C45). 482169
- ultrastructural changes**
Morphology of the process of regeneration at cellular and subcellular levels in healing of brain tissue injuries under total-body irradiation conditions. (C14). 466104
- BIOLOGICAL REPAIR:**
See also **HOST-CELL REACTIVATION; PHOTOREACTIVATION**
- age dependence**
Changes in repair of potentially lethal damage with culture age in EMT6 cells. (C11). [Data] 490913
Experimental study of the ability of stem cells of small intestine epithelium for early post-irradiation recovery. (C14). 479838
The problem of the recuperative capacity of mammals after acute sublethal whole-body exposure to high-energy radiation, with special regard to the juvenile organism. (C14). 487204
- antimitotic drugs**
Interaction between radiation and drug damage in mammalian cells. (C11). 494261
- atp**
Alterations in the survival of X-irradiated cells by 2,4-dinitrophenol depending on ATP deprivation. (C11). 481995
- bacteria**
Functioning of repair systems in thermophilic bacteria. (C12). 465940
- biochemical reaction kinetics**
Enzymatic activities in ultraviolet-induced DNA degradation in *Escherichia coli*. (C12; Genetic variations in activity of exonucleases and polymerases in *E. coli* mutants). [Data] 476537
- biological pathways**
Genetic and physiological factors affecting repair and mutagenesis in yeast. (C12). [Data] 494281
Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- biological radiation effects**
Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001
- cell cycle**
Repair of potentially lethal damage in a gamma-irradiated autotrophic microorganism. (C12). 490940
- chronic irradiation**
Role of radiation-induced reversible changes in molecules as observed during chronic irradiation of biological objects. (C11). 484455
- clone cells**
Interaction between radiation and drug damage in mammalian cells. (C11). 494261
- comparative evaluations**
Effect of intercellular contact on the radiation sensitivity of KHT sarcoma cells. (C14, C11). 472957
Postreplication DNA repair in mammalian cells exposed to radiation and chemical carcinogens. (C11). 463054
Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
Repetitious nature of repaired DNA in mammalian cells. (C11; UV radiation, ³H and ¹⁴C tracer techniques). [Data] 472922
- cyanides**
Modifying effect of sodium cyanide under irradiation of man lymphocytes at different mitosis stages. (C11). 479771
- delayed radiation effects**
An approach to early evaluation of possible late effects of radiation. (C11). [Data] 481998
- dna**
Postradiation DNA repair and mechanisms underlying the action of radiation damage modifiers. (C14, C11). 466081
- dose-response relationships**
Radiation-induced DNA damage in V79 spheroids and monolayers. (C11, C31; γ rays; cultured Chinese hamster (V79) cells). [Data] 476502
Repair of radiation damage caused by cyclotron-produced neutrons. (C11; Criticism of previous experimental results presented by Hall et al.). 472914
- energy dependence**
Impaired repair capacity of DNA breaks induced in mammalian cellular DNA by accelerated heavy ions. (C11; Argon-, carbon-, and neon-ion beams; cultured human kidney T-1 cells). [Data] 476520
- escherichia coli**
DNA repair and mutagenesis in thermosensitive *Escherichia coli* mutants. (C12). 465945
- growth**
Response of plateau-phase mouse embryo fibroblasts to ultra-violet light. (C11). [Data] 490909
- inhibition**
Effect of lucanthone on the radiation response of intestinal stem cells in Chinese hamsters. (C14; X-rays). 469653
Enhancement of thermal killing by polyamines. III. Synergism between spermine and γ radiation in hyperthermic Chinese hamster cells. (C11). 490905
Influence on DNA repair inhibitors on dominant lethal factors after gamma irradiation. (C14). 479825
Study of the repair of potentially lethal and sublethal radiation damage in Chinese hamster cells exposed to extremely hypo- or hypertonic NaCl solutions. (C11; X rays). [Data] 476517
- lethal irradiation**
Interaction between radiation and drug damage in mammalian cells. (C11). 494261
- nucleases**
Excision repair of gamma-ray-induced alkali-stable DNA lesions with the help of γ -endonuclease from *Micrococcus luteus*. (C11). [Data] 463060
- radiation effects**
Relative rates of repair of single-strand breaks and postirradiation DNA degradation in normal and induced cells of *Escherichia coli*. (C12; uv radiation). 469618
- radiation injuries**
Interaction between radiation and drug damage in mammalian cells. (C11). 494261
- radioprotective substances**
Postradiation DNA repair and mechanisms underlying the action of radiation damage modifiers. (C14, C11). 466081
The role of repair processes in case of radioprotectors effect on the cells. (C12). 479800
- response modifying factors**
Influence of adeturone on repair processes in different *E. coli* strains. (C13). 465963
Repair and prolonged hypoxia. (C11). 494269
- reviews**
DNA repair after radiation exposure. (C11, C15). 460948
- sex dependence**
DNA strand-break repair in regressing and developing chick embryo Mullerian ducts. (C14, C31). [Data] 479815
- spatial distribution**
Pattern of ultra-violet-light-induced repair in metaphase and interphase chromosomes. (C11). [Data] 463040
- strand breaks**
DNA radiation damage repair systems in blue-green alga cells. (C13). 465950
DNA single-strand break repair kinetics in individual cells and small cellular spheroids following exposure to X-rays or neutrons. (C11). 465903
- survival curves**
Repair and prolonged hypoxia. (C11). 494269
- temperature dependence**
'Repair' of fast-neutron and X-ray-induced damage to the permeabilities of red blood cells to sodium and potassium ions and its promotion by ghosts. (C11). [Data] 463059
The action of hyperthermia on DNA repair. (C11). 476531
DNA strand-break repair in regressing and developing chick embryo Mullerian ducts. (C14, C31). [Data] 479815
Response of mouse adenocarcinoma cells to hyperthermia and irradiation. (C11, C63). 476515
- time dependence**
Repair of sublethal radiation damage by capillaries. (C14; ⁶⁰Co γ rays; beagles). 487210
Repair of sublethal damage in mammalian cells irradiated at ultrahigh dose rates. (C11; Chinese hamster ovary cells). [Data] 472905
Repair of sublethal radiation damage by capillaries. (C14; ⁶⁰Co γ rays; beagles). 476554
- unicellular algae**
Evidence for dark repair of far ultraviolet light damage in the blue-green alga, *Gloeocapsa alpicola*. (C13). [Data] 484498
- xp cells**
Defective DNA repair synthesis for gamma-irradiated nondividing human lymphocytes in xeroderma pigmentosum. (C11). 465914
- BIOLOGICAL SHIELDING:**
- lamellae**
Scalar leakage flux spectra for 6 MeV gamma photon penetrations through Pb-Al and Fe-Al laminated shields. (A32). 493139
- photons**
Scalar leakage flux spectra for 6 MeV gamma photon penetrations through Pb-Al and Fe-Al laminated shields. (A32). 493139
- temperature control**
Thermal hydraulic analysis of the biological shield and drywell ventilation system of the reactors of Tarapur Atomic Power Station. (E31). 470644
- BIOLOGICAL SHIELDS:**
- concrete-plastic composites**
On the calculation of shields from concretes with an increased hydrogen content. (A31). 464921
- molding**
Device used in the making of molds for the treatment of Hodgkins disease. (D14). 473570
- multigroup theory**
Subgroup method for accounting nonscattered and once-scattered neutron spatial distribution in multigroup shielding calculations. (E21). 480561
- radiation doses**
Calculation of absorbed dose in certain two-dimensional gamma radiation transport problems. (D15). 466454

- radiation streaming**
Nuclear power plant. (E22). 470530
reactor vessels
Method for placing biological shielding structure of reactor. (E36). 470784
- thickness**
Simplified calculation of a barrier thickness for scattered radiation from cobalt-60. (C54). [Data] 473292
- BIOLOGICAL STRESS:**
synergism
Accelerated aging in combined stress environments. (C12; Combined radiation and temperature effects on aging (survival) of *Bacillus subtilis*). 469609
- BIOLOGICAL TESTING:**
See *BIOASSAY*
- BIOLOGICAL VARIABILITY:**
Strain differences in the embryotoxicity of ^{239}Pu . (C21; Rats). [Data] 473056
- BIOLOGICAL WASTES:**
See also *FECES; SEWAGE SLUDGE; URINE*
- BIOLOGY:**
See also *CYTOLOGY; RADIOBIOLOGY*
A bibliography of AECL publications on environmental research. (F61). 462059
- isotope applications**
Enriched isotope applications: biomedical field. (C62, C31, B13, D13; New stable isotopes for clinical use and use in biomedical research). 473419
- BIOMASS:**
(Total weight of living organisms per unit area, or weight or volume of organisms per unit volume of habitat.)
irradiation
Can irradiation contribute in the upgrading of biomass to fuels. An introduction. (C41). 484610
- BIOMEDICAL RADIOGRAPHY:**
See also *FLUOROSCOPY; OSTEODENSITOMETRY*
A composite resin as an implant material in bone. (C61). 470067
Popliteal processes in xeroradiography. (C61). 470052
- accuracy**
High contrast doses for peripheral and cerebral angiography. (C61). 470035
- Multi-parameter evaluation of cerebral perfusion curves in cerebrovascular diseases. (C62).** 491346
- adrenal glands**
Radiological diagnosis of adrenal tumours. (C61, C62, C55). 466390
- afterloading**
The Selectron, a device for afterloading in the radiation of cervix carcinomas. (C63). 476814
- albumins**
Quantitative cisternography. (C61). 491283
- attenuation**
Correction for beam hardening in computed tomography. (C61). 463453
- automation**
Device for X-ray examinations. (E42). 461868
- barium sulfates**
The double contrast meal - new high density barium sulphate powders, and reply by James, W.B. (C61). 494501
- biliary tract**
The effect of contrast volume on the radiographic demonstration of the gall bladder and bile duct. (C61). 473352
- Improvement of oral cholecystography and cholangiography with Ceruletide. (C61).** 473388
- biopsy**
Needle biopsy with the aid of X-ray diagnosis. (C61). 473345
- bladder**
The diagnostic value of double-contrast-technique cystography in the evaluation of benign and malignant lesions of the urinary bladder. (C61, C55). 484701
- blood circulation**
Global and regional assessment of cardiac performance by ECG-gated radionuclide blood pool imaging. (C62). 494564
- blood vessels**
Angiography and computed tomography in the evaluation of cerebral venous malformations. (C61). 487661
Angiography in synovitis of the knee. (C62). 466413
The diagnostic value of angiography for the assessment of bone tumours in paediatric practice. (C61). 470065
Encyclopedia of medical radiology. Vol. 10. (C61). 484707
Multi-parameter evaluation of cerebral perfusion curves in cerebrovascular diseases. (C62). 491346
New angiographic knowledge regarding the female breast. (C61). 482304
- Radionuclide angiography in diseases of the aorta, kidneys, liver, and peripheral blood vessels. (C62).** 476794
- Selective examination of the large branches of the arch of the aorta with the help of a new triiodinated angiographic contrast material (Iodamide 420). (C61).** 482325
- Two simple inexpensive photographic methods for viewing ECG-gated radionuclide blood pool images. (C63).** 463477
- X-ray diagnostic device. (C61).** 466381
- body**
Improvements in or relating to radiography. (C61). 476767
- bone joints**
Radiology of joint trauma. (C61). 482302
The significance of axial misalignment as a pre-osteoarthrotic deformity, and its radiological assessment. (C61). 476774
A technique for reproducible roentgenograms of the intercondylar sulcus for the study of the femoropatellar. (C61). 484709
The value of traction during roentgenography of the wrist and metacarpophalangeal joints. (C61). 487671
- X-ray diagnosis of retropatellar diseases. (C61).** 491295
- bone tissues**
Birth injuries to the epiphyseal cartilage. (C61). 461371
- brain**
Comparative study of computed tomography (CT) and carotid angiography (CAG) in stroke patients. (C61). 473362
The development of paediatric neuroradiology. (C61). 473349
- carcinogenesis**
Mass radiography via mammography in women with enhanced risk of cancer of the breast. (C61, C55). 476765
- carcinomas**
Dose measurements in mammography. (C55). 461357
Quality, dose, and risk rates in mammography. (C55). 461362
- cardiovascular system**
Global and regional assessment of cardiac performance by ECG-gated radionuclide blood pool imaging. (C62). 494564
- cartilage**
Birth injuries to the epiphyseal cartilage. (C61). 461371
- cats**
A stereotaxic method based on ventricular radiography in the cat. (C45). 469873
- charged particle detection**
Solid state track recorders in nuclear medicine. (C60). 470021
- chest**
Extension of thoracic roentgen diagnosis by computer tomography. (C61). 470042
Improved plainfilm diagnosis of right aortic arch anomalies with high kilovoltage-selective filtration-magnification technique. (C61). 461398
Radiology in chest trauma. (C61). 482324
- children**
X-ray diagnoses of metabolic bone diseases in infants. (C61). 473377
- collimators**
Improvements in or relating to radiography. (C61, E41; Multi-beam tomography). 494515
- comparative evaluations**
Comparative evaluation of information capability of various biomedical radiography methods. (C61). 494516
Comparative study of computed tomography (CT) and carotid angiography (CAG) in stroke patients. (C61). 473362
Computed tomographic diagnosis of osteomyelitis. (C61, C62; Comparison with biomedical radiography and /sup 99mTc-pyrophosphate scintiscanning). 470041
Fracture of skull. (C61). 482300
Hypervascular presentation of multiple myeloma involving the skull, demonstrated on encephaloscintigraphy. (C62, C61; ^{99}Tc -pyrophosphate and -pertechnetate). 473436
Radiodiagnosis of Cerebellopontine-angle tumors. (C61, C62). 484716
- contrast media**
Amipaque as contrast medium for intraosseous phlebography. (C61). 473391
A comparative trial of two oral cholecystographic contrast media - iocetamic acid (cholebrin) and iopanoic acid (telepaque). (C61). 476763
Ioxaglate, a new low osmolar contrast medium used in femoral angiography. (C61). 463454
Results of cerebral angiography with new types of contrast media of low iodine concentration. (C62). 494560
Selective examination of the large branches of the arch of the aorta with the help of a new triiodinated angiographic contrast material (Iodamide 420). (C61). 482325
The stomach and duodenum. Chapter 4. (C61). 487669
- cost benefit analysis**
Considerations of health benefit-cost analysis for activities involving ionizing radiation exposure and alternatives. Technical report. (C15, C60, C52). 491001
- data acquisition systems**
Radiographic apparatus. (C61, E41; Photomultiplier normalization). 494506
- data processing**
Axial tomographic system for radiation diagnoses. (C61). 466377
Conventional-radiographic and computer-assisted cisternography of the posterior fossa with Metrizamide. (C61). 473386
Multi-parameter evaluation of cerebral perfusion curves in cerebrovascular diseases. (C62). 491346
- diagnostic techniques**
Tomoscan opens up new technology. (C45). 494371
X-ray equipment for transversal tomography. (C61). 466388
- display devices**
A comparison of two hard-copy display systems for nuclear medicine. (C62). 494568
Improvements in or relating to radiography. (C61). 476770
- domestic animals**
Prenatal neuroradiology: Comparative radiological investigations of the embryonal and fetal brain. (C41). 473144
- dose equivalents**
Estimations of stochastic risk from medical x-ray diagnosis. (C55). 491242
- dose ratemeters**
X-ray diagnostic generator with dose-rate metering device. (D15, C55). 470252
- dtpa**
Quantitative cisternography. (C61). 491283
- ecr heating**
Application of an ECR plasma x-ray source for medical radiography. (C61). 482285
- estrous cycle**
ICRP publication 26 and the 'ten-day rule'. (C54). 491217

- fingers**
Rheumatoid arthritis in the hand. Chapter 9. (C61). 487670
- gastrointestinal tract**
Technique and management of double contrast studies in the intestinal tract. (C61). 484715
- heart**
Encyclopedia of medical radiology. Vol. 10. (C61). 484707
Radiation exposure ducts X-rays of the thoracic organs and its contribution to overall radiation exposure due to X-ray diagnoses. (C55). 461350
The radiological evaluation of atrial situs. (C61). 476775
- image converters**
Converter for the conversion of the pictorial intensity distribution in the cross-section of a bundle of X-rays or gamma rays. (C61). 484713
Device for evaluating a radiation energy pattern. (C61). 461384
- image intensifiers**
Radiographies with 25 MeV photons. (C61, D14). 473340
- image processing**
DESY: computer angiography. (C61). 480205
- image scanners**
Tomoscan opens up new technology. (C45). 494371
- images**
A comparison of two hard-copy display systems for nuclear medicine. (C62). 494568
Image distortion in narrow beam rotation radiography. (C61). 473398
Image formation by back-projection: a reappraisal. (C61). 491274
Merit of Ge and Na(Tl) detectors as determined by image efficiency and scatter rejection. (C62, E41). 491356
On the process of the x-ray image formation. (I). (E41). 482843
Quantum fluctuations in radiographic screen-film systems. (E41). 480783
Terms and definitions in the field of radiological technique. (C61). 476762
- infants**
X-ray orbiscope physiological examination of the upper respiratory tract in newborn and infants using. (C61). 482301
- integral doses**
Mean energy imparted in relation to the focus to object distance. (C55). 491263
- ion beams**
Proton-ion radiography. The prospects for using in medical diagnosis. Pt. 1. (C61). 480250
Using of heavy charged particles for radiography. (C61). 491298
- irradiation procedures**
Absorbed bone marrow dose in certain dental radiographic techniques. (C15, C61). 473031
- kidneys**
Evaluation of isotope nephrograms by the deconvolution method. (C62). 470101
Sonography, computer tomography and angiography in the diagnosis of an haemangioma of the renal pelvis. (C61). 476779
- large intestine**
The accuracy of the double contrast technique in the detection of small lesions of the colon. (C61). 482309
The examination of the colon. Chapter 5. (C61). 487666
- liver**
Aberrant hepatic artery. (C61). 473364
- lungs**
Radiation exposure ducts X-rays of the thoracic organs and its contribution to overall radiation exposure due to X-ray diagnoses. (C55). 461350
Roentgenological picture of lungs and mediastinum in delayed period after lung cancer therapy. (C63). 494598
The role of the native X-ray in the diagnosis and judgment of pulmonary stenosis with intact ventricular septum. (C61). 476776
- lymph nodes**
Lymph node metastases - diagnosis by lymphography and CT. (C62). 470096
- mammary glands**
Apparatus for compressing and positioning an object to be examined. (C61). 491297
Benefits, risks, and costs of mammography. (C61, C55). 461388
Dose measurements in mammography. (C55). 461357
New angiographic knowledge regarding the female breast. (C61). 482304
Quality, dose, and risk rates in mammography. (C55). 461362
- mathematics**
Image distortion in narrow beam rotation radiography. (C61). 473398
Position, form, and thickness of the image layer in narrow beam rotation radiography. (C61). 473390
- measuring methods**
Detector system for particle or quantum radiation with a multitude of channel secondary electron multipliers arranged in the form of a laminar matrix. (E41). 485098
- mediastinum**
Roentgenological picture of lungs and mediastinum in delayed period after lung cancer therapy. (C63). 494598
- mev range 10-100**
Radiographies with 25 MeV photons. (C61, D14). 473340
- multiwire ionization chambers**
Improvements in or relating to radiography. (C61, E41; Multi-beam tomography). 494515
- muscles**
Roentgenmorphological muscle changes in anterior horn cell lesions. (C62). 470146
- neoplasms**
Apparatus for compressing and positioning an object to be examined. (C61). 491297
- nervous system**
The value of neuroradiological investigations in intraspinal malformations of the lumbosacral spine in childhood. (C61). 473329
- nervous system diseases**
The radiology of orbital meningioma. (C61). 476771
- neutron radiography**
Neutron radiography in the study of biological and medical problems in Czechoslovakia. (C61). 494503
- optimization**
Improvement of oral cholecystography and cholangiography with Ceruletid. (C61). 473388
Topical problems of radiation protection in diagnostic procedures of the pelvis. (C55, C15). 466360
- organic iodine compounds**
Quantitative cisternography. (C61). 491283
- patients**
Controlled selective angiography. (C61). 480224
- personnel dosimetry**
Application of time-lapse photography to the apportionment of personnel exposure during cardiac catheterization. (C55). [Data] 473315
The new ICRP concept of person-dose related to the film-badge exposure for some geometries and radiation qualities used in medical X-ray. (C55). [Data] 463451
Radiation burden of patients from alimentary canal examinations. (C55). 482282
- photographic emulsions**
Factors affecting the nickel yield of an irradiated sodium hypophosphite-ammoniacal nickel system and its potential use as a radiographic media. (B14, E41). 472545
- photographic films**
The quality of radiographs produced by automatic processors. (E41). 477376
Two against one - a case for single-sided films. (E41). 480759
- photography**
Two simple inexpensive photographic methods for viewing ECG-gated radionuclide blood pool images. (C63). 463477
- photomultipliers**
Radiographic apparatus. (C61, E41; Photomultiplier normalization). 494506
- photon emission**
Systems for detecting and recording hard corpuscular and electromagnetic radiations using a superconducting element. (E41). 474059
- photon transmission scanning**
New detector for a X-ray transverse axial tomographic device. (E41, C31). 474080
- photons**
Information content of poisson images. (C62). 491312
- pituitary gland**
Radiology of the pituitary. Chapter 7. (C61). 487660
- plasma focus devices**
Combined X-ray and neutron diagnostics apparatus. (C55). 461352
- prenatal irradiation**
Radiation effects on pre-natal development and their radiological significance. (C15). 490998
- programming**
Application of computer and mathematical methods to clinico-roentgenological data analysis in gastrointestinal tract lymphogranulomatosis diagnosis. (C61). 494507
- proton beams**
Proton-ion radiography. The prospects for using in medical diagnosis. Pt. 1. (C61). 480250
Using of heavy charged particles for radiography. (C61). 491298
- quality assurance**
Diagnostic radiology quality assurance catalog - supplement. (C15, C60). 487239
- quality control**
Status of film/screen mammography. (C15, C61, D14). 487256
- radiation detectors**
Medical radiographic apparatus. (E41). 461825
- radiation doses**
Absorbed doses to patients and personnel from endoscopic retrograde cholangiopancreatographic (ERCP) examinations. (C15, C61). 494313
Computer program for organ doses in diagnostic radiology. Final report May 78. (C15, C61). 472989
Determination of gonadal dose in diagnostic radiology in Turkey. (C55). 487652
Distribution of scattered X-ray around U-stands in cardiology. (C55). 482271
Dosimetric and cytogenetic estimation of radiation burden value during angiography. (C55, C15). 480196
A gastric mass survey. (4). (C55). 476744
Gonad doses in biliary tract examinations (cholecystography). (C55). 470012
Gonad doses in hysterosalpingography and colpocystography. (C55). 469991
Improved image quality in mammography due to moving grids. (C61, C55). 466383
The influence of the cassette front on patient radiographic exposure. (C55, C61). [Data] 463423
Patient exposure from diagnostic X-rays; an analysis of 1972-1975 NEXT data. (C55). [Data] 473322
Personnel radiation burden in some neuroradiological examinations. (C54). 484686

- Radiation exposure of the Austrian population due to X-ray diagnosis. (C15). 490995
- Reduction of patient dose delivered by CHR diagnostic x-ray examinations. (C15). [Data] 479895
- Roentgen-kymographic image quality improvement and radiation burden decrease during investigations. (C55, C61). 494486
- A systematic study on factors affecting patient dose, (1). (C55). 491253
- radiation hazards**
- Absorbed radiation dose in mammography. (C15, C61, D15). 469695
- Adjustable lead glass shielding device for use with a over-the-table x-ray tube. (C15, C60, C54). 469692
- Can animal and in vitro studies give new, relevant answers to questions concerning mammographic screening for human breast cancer. (C15, C61). 487242
- Defects of the central nervous system in Finland. IV. Associations with diagnostic x-ray examinations. (C15, C61). 487251
- Effectiveness of glass lenses in reducing exposure to the eyes. (C15, C60, C54). 469676
- Estimations of stochastic risk from medical x-ray diagnosis. (C55). 491242
- Look at FDA's Program to protect the American consumer from radiation. (C15). 487279
- Magnification mammography: a low-dose technique. (C15, C61). 490981
- On the problem of radiation damage due to diagnostic radiology of the chest. (C15). 476576
- Radiation and the embryo. (C55, C15). 491228
- Radiation protection of the lens for patients and users. (C15, C60, C54). 469708
- Radiation-risk in roentgendiagnoses of the gastrointestinal tract. (C15). 482077
- Recommendations for mammography: A sense of reality. (C15, C61; Short discussion of the radiation hazards of mammography). 473016
- Simple method of protecting the eye from scattered radiations during mantle-field therapy. (C15). 469681
- Value of conventional eyeglasses for x-ray protection. (C15, C60, C54). 469679
- X-ray attenuation by prescription lenses. (C15, C60, C54). 469731
- radiation protection**
- Organizational-methodical measures for improvement radiation safety during radiological examinations. (C55). 480184
- Qualitative characteristics of scattered X-radiation. (C54, C63). 482255
- Reduction of patient exposure during dental radiography. (C54). [Data] 463413
- Some trial for reducing radiation doses at radiographic measurement of the pelvis. (C54). 491225
- recommendations**
- Difficulties of practical introduction of electroroentgenographic investigation methods. (C61). 494498
- Recommendations for mammography: A sense of reality. (C15, C61; Short discussion of the radiation hazards of mammography). 473016
- recording systems**
- Intrasurgical use of X-ray TV with video recorders. (C61, C55). 466389
- rectum**
- Exploratory roentgen examination of the anal canal. (C61). 466392
- respiratory system**
- X-ray oroscope physiological examination of the upper respiratory tract in newborn and infants using. (C61). 482301
- rheumatic diseases**
- The 'pre-erosive' radiologic signs of rheumatoid arthritis in soft tissue radiography of the hands. (C61). 461383
- rotation**
- Position, form, and thickness of the image layer in narrow beam rotation radiography. (C61). 473390
- screens**
- Quantum fluctuations in radiographic screen-film systems. (E41). 480783
- sensitivity**
- Status of film/screen mammography. (C15, C61, D14). 487256
- shielding materials**
- Shielding calculations below 100 kVp in concrete-equivalent materials. (C54, A32). 463403
- shields**
- Experience in application of new intensifying screens to decrease radiation burden in biomedical radiography of children. (C54, C61). 494460
- side effects**
- High contrast doses for peripheral and cerebral angiography. (C61). 470035
- skeletal diseases**
- The clinical value of direct magnification radiography in orthopedies. (C61). 461393
- The radiographic manifestations of hypochondroplasia. (C61). 476766
- X-ray diagnostic steps in bone tumours and tumorous skeleton diseases in infants. (C61). 473344
- skeleton**
- Differential diagnosis of radiological areas of increased translucence in the infant skeleton. (C61, C62). 466375
- Radiological and scintigraphic evaluation of hip prostheses. (C61, C62). 476760
- X-ray diagnoses of metabolic bone diseases in infants. (C61). 473377
- skull**
- Conventional-radiographic and computer-assisted cisternography of the posterior fossa with Metrizamide. (C61). 473386
- Fracture of skull. (C61). 482300
- solid scintillation detectors**
- Tomography apparatus using bismuth germanate scintillators. (C61, E41). 494514
- spatial resolution**
- Status of film/screen mammography. (C15, C61, D14). 487256
- specifications**
- Improvements in or relating to radiography. (C61, E41). 473356
- Improvements in or relating to medical radiographic apparatus. (E41). 474067
- spinal cord**
- Further developments in water-soluble myelography 1974-1977. Chapter 10. (C61). 487662
- stomach**
- The double contrast meal - new high density barium sulphate powders, and reply by James, W.B. (C61). 494501
- technetium 99**
- Radionuclide angiography in diseases of the aorta, kidneys, liver, and peripheral blood vessels. (C62). 476794
- thermoluminescent dosimeters**
- Improvements in thermoluminescent materials. (B24, E41). 494093
- thermoluminescent dosimetry**
- Use of TLD in radiation protection survey of mobile mass-miniature radiography unit. (C55). 491248
- three-dimensional calculations**
- Image formation by back-projection: a reappraisal. (C61). 491274
- tomography**
- Axial tomographic system for radiation diagnoses. (C61). 466377
- Device for transverse scanning of coplanar points of a body using X-rays. (C61). 466376
- Equipment for X-ray diagnosis. (C61). 482289
- Improvements relating to axial tomographic devices. (E41, C31). 474062
- Method to investigate a body by means of penetrating radiation. (C61). 470036
- Multiplex circuits for the transmission channels of a cathode ray scanner with rotating radiation source. (C61). 466386
- X-ray diagnostic equipment. (C61). 482298
- tracer techniques**
- Method for highly sensitive scintillation autoradiography. (C30). 482110
- trachea**
- Radiographic examination of tracheal strictures by means of powdered tantalum. (C61). 473387
- urinary tract**
- Prediction of vesico-ureteral reflux in children from intravenous urography films. (C61). 476769
- The urinary bladder 'cut in half'. (C61). 482312
- urogenital system diseases**
- Combination of congenital malformations of the kidneys and efferent urinary tract and malformations of the cardiovascular system. (C61). 470040
- veins**
- Present methods of diagnosing deep venal thromboses and lung embolism. (C61, C62). 476761
- x radiation**
- H and D curves of screen-film systems: factors affecting their dependence on x-ray energy. (C53). 469985
- x-ray detection**
- Tomography apparatus using bismuth germanate scintillators. (C61, E41). 494514
- x-ray dosimetry**
- Absorbed radiation dose in mammography. (C15, C61, D15). 469695
- Controlled single-blind clinical evaluation of low-dose mammographic screen: film systems. (C15, C61). 469723
- Practical method for monitoring diagnostic radiation dosage in the newborn nursery. (C15, C61). 487278
- x-ray tubes**
- Methods for studying the focal spot size and resolution of diagnostic X-ray tubes. (E41). 492084
- Radiographic device. (C61). 466385
- X-ray diagnostic device. (C61). 466381
- xerography**
- Our experiences with xeroradiographic investigations of the breast. (C61). 466396
- BIOSPHERE:**
- contamination**
- Data on the radioactive contamination of the biosphere. (B33). 494246
- BIOSYNTHESIS:**
- acute irradiation**
- Influence of thiocetamide on liver RNA synthesis in irradiated rats. (C14). 466125
- age dependence**
- In vitro incorporation of $1\text{-}^{14}\text{C}$ -acetate and ^{32}P -orthophosphoric acid into phospholipids at various stages of growth of Pythium irregulare. (C21). 482081
- biological radiation effects**
- Effects of Low-level radiation doses on DNA synthesis in organs of mice differing in age. (C14). 466073
- dna**
- Effects of Low-level radiation doses on DNA synthesis in organs of mice differing in age. (C14). 466073
- globulins**
- Nuclear protein biosynthesis in rat organs after irradiation. (C14). 463165
- in vitro**
- Investigation of some urea derivatives under in vitro conditions. (C21, C44). 476609

- low dose irradiation**
Influence of steroids on nucleic acid metabolism in the developing tissues of an irradiated organism. (C14). 463142
- measuring methods**
Unscheduled DNA synthesis (DNA repair) in the germ cells of male mice: its role in the study of mammalian mutagenesis. (C14; X radiation). [Data] 494303
- nerve cells**
Electron microscopic localization of ^3H -leucine in the neurons of the hypoglossal nerve during axonal reaction. (C45). 473167
- proteins**
Electron microscopic localization of ^3H -leucine in the neurons of the hypoglossal nerve during axonal reaction. (C45). 473167
- radiochromatography**
Demonstration of Prostaglandin- E_2 synthetase enzyme system in human placenta. (C45). [Data] 494372
- radioimmunoassay**
Correlation between the levels of N^6 (Δ^2 -isopentenyl)-adenosine and synthesis of DNA in germinating rice seeds. (C31). 469836
Demonstration of Prostaglandin- E_2 synthetase enzyme system in human placenta. (C45). [Data] 494372
- rna**
Influence of thiocetamide on liver RNA synthesis in irradiated rats. (C14). 466125
Transcription activity of hepatic and splenic nuclei in rats exposed to radiation at various ages in the presence of DNA antibodies. (C14). 466066
- tracer techniques**
Biosynthetic studies on linalool and linalyl acetate in *Ocimum canum* Sims and *Mentha citrata* Ehrh. (C31). 482118
Effect of N:S ratio on the incorporation of ^{35}S into the thioamino acids of the microbial protein in an in vitro rumen system. (C41). 463314
Effect of puromycin on DNA synthesis in *Drosophila* polytene chromosomes : a probe into the control of replication. (C31). 461124
In vitro incorporation of $1\text{-}^{14}\text{C}$ -acetate and ^{32}P -orthophosphoric acid into phospholipids at various stages of growth of *Pythium irregulare*. (C21). 482081
Incorporation of ^{32}P - Na_2HPO_4 into caseins and lipoprotein complexes of milk from a lactating buffalo. (C44). 482160
RNA polymerase and protein synthesizing activity in developing bengal gram cotyledons. (C31). 461134
Some studies on nucleic acids and incorporation of ^{35}S in the microbial protein synthesis in buffalo rumen. (C44, C31). 461149
- BIOTITE:**
- adsorption**
Sorption of americium on major rock-forming minerals. (C52, E52, B31). 480011
- argon 40**
Limited mobility of argon in a metamorphic terrain. (B31). [Data] 479581
- fission tracks**
Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- gaseous diffusion**
Limited mobility of argon in a metamorphic terrain. (B31). [Data] 479581
- isotope dating**
Potassium-argon ages of the Amritpur granite, District Nainital, Kumaun Himalaya and its stratigraphic position. (B31). 460873
208-240 M.Y. old jadeite-glaucofan schists in the Kurosegawa tectonic zone near Kochi city, Shikoku. (B31). [Data] 490797
- isotope ratio**
D/H and $^{18}\text{O}/^{16}\text{O}$ ratios of biotites from the Hiroshima and Tottori batholiths. (B31). 476424
- BIPHENYL:**
- phosphorescence**
Host/guest deuteration effects on mixed crystals. (A13). 474747
- BIPYRIDINES:**
- chemical reactions**
Effect of surfactant micelles on the reaction between hydrated electrons and dimethyl viologen. (B14). 468971
- photochemistry**
Electron transfer reactions of the biradicals produced in the Norrish type II process. (B12). 472462
- radiolysis**
One-electron reduction of aromatic nitrogen heterocycles in aqueous solution. 2,2'-bipyridine and 1,10-phenanthroline. (B14). 493817
- BIRCHES:**
See TREES
- BIRDS:**
See also CHICKENS; PIGEONS
- ecology**
American coot (*Fulica americana*) on the Hanford Site. Part 1. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). [Data] 487211
Raptors of the Idaho National Engineering Laboratory Site. (B33, C52). 494231
- population dynamics**
Raptors of the Idaho National Engineering Laboratory Site. (B33, C52). 494231
- reproduction**
American coot (*Fulica americana*) on the Hanford Site. Part 1. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). [Data] 487211
- BIS(2-ETHYLHEXYL)PHOSPHORIC AC:**
See HDEHP
- BIS-CHLOROETHYLAMINE:**
See NITROGEN MUSTARD
- BISMUTH:**
- absorption spectroscopy**
Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
- activation analysis**
Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504
- adsorption**
Adsorption and condensation of bismuth on tungsten. (B22, A13, B21). 490623
- chemisorption**
Oxygen chemisorption on Bi (0001): LEED/Auger/loss study. (B22). 476337
- crystal growth**
Adsorption and condensation of bismuth on tungsten. (B22, A13, B21). 490623
- elasticity**
Computation of elastic moduli from interatomic forces. (B24). 490688
- energy-level transitions**
Search for parity nonconserving optical rotation in atomic bismuth. (A12, A21). 477706
Search for parity non conserving neutral current effects in atomic bismuth. (A21, A12). 468055
- interatomic forces**
Computation of elastic moduli from interatomic forces. (B24). 490688
- ion exchange chromatography**
Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ion-atom collisions**
X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- layers**
Charge transport in Bi_2Se_3 amorphous thin layer. (B22, A13). 486904
- neutron diffraction**
Low temperature and neutron physics studies. Progress report, September, 1977 - April, 1979. (A32, B22). 490035
- optical activity**
Parity violation in atomic transitions. (A12). [Data] 474554
- p invariance**
Gauge model of parity nonconservation in neutral-current phenomena. (A21, A12; $\text{SU}(2) \times \text{U}(1) \times \text{U}(1)$). 478475
Why all the fuss about bismuth. (A21). 462545
- physical radiation effects**
Displacement threshold energy in bismuth. (B25). [Data] 472772
- pion minus reactions**
Emission of low-energy charged particles following negative-pion capture from rest. (A34). 468557
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- pion plus reactions**
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- quantitative chemical analysis**
Proton-activation technique for the determination of antimony. (B11). 493511
- superconductivity**
Superconducting fluctuation effects in amorphous-bismuth thin films in the presence of a perpendicular magnetic field. (B22, A17). 469290
- type-I superconductors**
Determination of the critical magnetic field of a superconducting Al-type As, Sb and Bi phase. (B22). 490626
- urine**
The determination of ^{210}Po and ^{210}Bi in human urine by direct extraction on nickel. (B11). [Data] 472350
- weak neutral currents**
Search for parity nonconserving optical rotation in atomic bismuth. (A12, A21). 477706
- BISMUTH ALLOYS:**
See also BISMUTH BASE ALLOYS
- compatibility**
Elevated temperature compatibility of Hastelloy C-276 and Bi_2Te_3 . (B22). 484264
- critical field**
Ideal metastability fields and field penetration in type-I and type-II superconducting InBi single spheres. (B22, A17). 481836
- crystal structure**
Systematical trends of nuclear quadrupolar relaxation in metallic liquid alloys of indium. (B25). 481888
- magnetic flux**
Flux trapping and shielding in irreversible superconductors. (B22, A17). 479389
Morphology of flux line lattices in single crystalline Type II superconductors. (A17, B22). 475493
- phase diagrams**
The phase diagram for In-rich In-Bi alloys. (B22). 472631
Study of interaction in $\text{EuTe-Sb}_2\text{Te}_3(\text{Bi}_2\text{Te}_3)$ and $\text{YbTe-Sb}_2\text{Te}_3(\text{Bi}_2\text{Te}_3)$ systems. (B12). 478885
- superconductivity**
Ideal metastability fields and field penetration in type-I and type-II superconducting InBi single spheres. (B22, A17). 481836
- BISMUTH BASE ALLOYS:**
- kondo effect**
Static and dynamic properties of localized Mn moments in liquid bismuth. (B22). 486878

- magnetic moments**
Static and dynamic properties of localized Mn moments in liquid bismuth. (B22). 486878
- magnetic susceptibility**
Static and dynamic properties of localized Mn moments in liquid bismuth. (B22). 486878
- phase diagrams**
Magnetic phase diagrams of $\text{CeSub}(x)\text{LaSub}(0.76)\text{YSub}(0.24)\text{sub}(1-x)\text{Bi}$ compounds. (B12, B22). [Data] 475923
- superconductivity**
Evidence for superconductive microsegregations in tin-doped bismuth. (B22, A17). 481814
- x-ray diffraction**
Static and dynamic properties of localized Mn moments in liquid bismuth. (B22). 486878
- BISMUTH COMPLEXES:**
structural chemical analysis
Synthesis and structural characterization of some compounds involving metal-metal bonding of tellurium, bismuth, and zirconium. (B12). [Data] 468715
- BISMUTH COMPOUNDS:**
See also BISMUTH IODIDES; BISMUTH OXIDES; BISMUTH SULFIDES; BISMUTH TELLURIDES
- fluorescence**
Fluorescence properties of bismuth-doped LaPO_4 . (A13). [Data] 462219
- gadolinium ions**
Effects of exchange and crystal field in Van-Vleck's mononitrides and monochalcogenides. (A13). 471429
- hyperfine structure**
Effects of exchange and crystal field in Van-Vleck's mononitrides and monochalcogenides. (A13). 471429
- phase transformations**
Structural phase transformations in $\text{Cs}_2\text{NaB}^{3+}\text{Cl}_6$ crystals. (A13). 485567
- physical radiation effects**
Response of a $\text{Bi}_2\text{SiO}_{26}$ Pockels readout optical modulator to x rays. (B25). 472738
- radiolysis**
Radiation reduction of bismuth, europium and ytterbium ions. (B14). 479221
- BISMUTH IODIDES:**
magnetic susceptibility
Magnetic susceptibility of laminated BiTeI crystals. (A13). 467366
- vapors**
On interaction in gaseous phase in the antimony(bismuth) iodide-chalcogen systems. (B12). 490326
- BISMUTH IONS:**
energy transfer
Energy transfer between Bi^{3+} and Eu^{3+} in germanate glasses using time resolved spectroscopy. (A12). 459716
- ion implantation**
Improved semiconductor device and method. (A13). 492670
- BISMUTH ISOTOPE:**
See also BISMUTH 200; BISMUTH 204; BISMUTH 206; BISMUTH 207; BISMUTH 208; BISMUTH 209; BISMUTH 214
- high spin states**
High spin states in nuclei around ^{208}Pb . (A34, A33). 478703
- BISMUTH OXIDES:**
phase studies
Physicochemical study of the $\text{Bi}_2\text{O}_3\text{-TeO}_2$ system. (B12). 484023
- BISMUTH SULFIDES:**
trans 104 elements
Superheavy element search in bismuthinite, Bi_2S_3 . (B31). 481929
- BISMUTH TELLURIDES:**
chemical reactions
Investigation of $\text{K}_2\text{X-Bi}_2\text{X}_3$ (X-S, Se, Te) phase diagrams. (B12). 481655
- crystal growth**
Preparation of homogeneous plate monocrystals of $\text{Sb}_2\text{Te}_3\text{-Bi}_2\text{Te}$ and $\text{Bi}_2\text{Te}_3\text{-Bi}_2\text{Se}_3$ solid solutions. (B12). 481653
- electric conductivity**
Electrical and physical properties of $(\text{MnTe})\text{sub}(1-x)(\text{BiSub}(2)\text{TeSub}(3))\text{sub}(x)$ solid solutions with $x \leq 0.05$. (B22). 484156
- extrusion**
Diffusion in plastically deforming medium by direct extrusion. (B22). 484158
- films**
Studying the oxidation of the films of $(\text{Bi, Sb})_2\text{Te}_3$ solid solutions. (B22, B15). 493950
- hall effect**
Determination of the anisotropy parameter of the Hall effect in $\text{BiSub}(2)\text{TeSub}(3-x)\text{Sesub}(x)$ solid solutions. (A13). 467421
- melting**
Diffusion and evaporation of the volatile constituent in the melting of thermoelectric $\text{Bi}_2\text{Te}_3\text{-Bi}_2\text{Se}_3$ alloys. (B22, B21). 476249
- monocrystals**
Structural perfection of bismuth telluride monocrystals. (B22). 465665
- phase diagrams**
 $\text{GaTe}_3\text{-Bi}_2\text{Te}_3$ system. (B12). 465400
- interaction in the MnTe-Bi₂Te₃ system. (B12). 465390**
- thermoelectricity**
Effect of hydrostatic pressure on galvanothermoelectric properties of n-type bismuth telluride. (A13). 474698
- BISMUTH 200:**
energy levels
Nuclear data sheets for A=200. (A34). [Data] 465214
- nuclear properties**
Nuclear data sheets for A=200. (A34). [Data] 465214
- BISMUTH 204:**
energy levels
Decay of ^{204}Po . (A34; Esub(γ) = 63-1461 keV). 486474
- energy-level transitions**
Decay of ^{204}Po . (A34; Esub(γ) = 63-1461 keV). 486474
- BISMUTH 206:**
energy levels
Nuclear data sheets for A=206. (A34). [Data] 465235
- nuclear properties**
Nuclear data sheets for A=206. (A34). [Data] 465235
- BISMUTH 207:**
gamma spectra
Gamma ray intensity standards for calibrating $\text{Ge}(\text{Li})$ detectors for the energy range 200-1700 KeV. (A32, E41). [Data] 475699
- high spin states**
High-spin states in ^{207}Bi and the question of three-particle interactions. (A34). 478744
- three-body problem**
High-spin states in ^{207}Bi and the question of three-particle interactions. (A34). 478744
- BISMUTH 208:**
energy levels
Pion single charge exchange. (A34, E41; Angular distribution, cross sections, preliminary results, 200 MeV). [Data] 478717
- isobaric analogs**
On the effect of isovector monopole states on the purity of the isospin and width of O^+ IAR in ^{208}Bi . (A33). 493304
- BISMUTH 208 TARGET:**
deuteron reactions
Kinetic study of binary and ternary fission induced by 2.1 GeV deuterons incident on U, Th, Bi, Pb and Au targets. (A34). 481543
- BISMUTH 209:**
ion-atom collisions
Molecular-orbital X-rays from 1 GeV $^{208}\text{Pb} + ^{208}\text{Pb}$ and $^{209}\text{Bi} + ^{209}\text{Bi}$ collisions. (A12). 477790
- magnetic dipole moments**
Magnetic moments of single-particle states around ^{208}Pb . (A33). 475739
- nuclear magnetic resonance**
Static and dynamic properties of localized Mn moments in liquid bismuth. (B22). 486878
- BISMUTH 209 TARGET:**
alpha reactions
 $(\alpha, ^3\text{He})$ breakup reaction on nuclei and the neutron momentum distribution in the α particle. (A33). 478674
- Charged particle spectra: 140 MeV α particle bombardment of ^{27}Al , ^{58}Ni , ^{90}Zr , ^{209}Bi , and ^{232}Th . (A34). 475857**
- calcium 48 reactions**
Study on the fusion reactions of ^{48}Ca ions with $\text{sup}(203,205)\text{Tl}$, ^{208}Pb , ^{209}Bi nuclei. (A34, A33). 493376
- heavy ion reactions**
Simple formulae for heavy ion subcoulomb transfer probabilities. (A33). 468277
- krypton 84 reactions**
TDHF calculations of Kr-induced strongly damped collisions. (A33; 494 to 714 MeV). [Data] 486216
- krypton 86 reactions**
Q- and Z-dependence of angular momentum transfer in deeply inelastic collisions of ^{86}Kr with ^{209}Bi . (A34). 483864
- lithium 6 reactions**
Transfer of ^6Li break-up fragments at ^6Li projectile energies far above the coulomb barrier. (A34). [Data] 483907
- neutron reactions**
(n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
- photofission**
Absolute photofission cross section of ^{209}Bi measured with monoenergetic gamma-radiation between 40 and 65 MeV. (A34). 465176
- photonuclear reactions**
Ineffectiveness of the quasi-deuteron mechanism of interaction in yielding (γ , nucleon) reactions on complex nuclei above 150 MeV. (A33). [Data] 481501
- Interaction of photons with ^{208}Pb and neighboring isotopes at energies below the neutron emission threshold. (A34). [Data] 465172**
- pion minus reactions**
Absorption of stopped π^- in ^{56}Co , ^{75}As , ^{197}Au and ^{209}Bi investigated by in-beam and activation γ -ray spectroscopy. (A34). 468543
- Emission of low energy charged particles following nuclear pion capture. (A34; Rates). 460360**
- proton reactions**
The (p, n) reaction on ^{209}Bi and pre-compound process. (A34). 465187
- Charged-particle spectra: 90 MeV protons on ^{27}Al , ^{58}Ni , ^{90}Zr , and ^{209}Bi . (A34). 475858**
- transfer reactions**
Angular distribution analysis for quasi-elastic transfer reactions induced in ^{209}Bi targets with heavy ions. (A34). 481578
- xenon 136 reactions**
Role of deformation in deep inelastic heavy ion collisions. (A33). 478650
- BISMUTH 214:**
coincidence spectrometry
Radium determination in soil samples using a gamma-ray coincidence spectrometer. (B11). 483994

| | |
|---|--------|
| diffusion | |
| Diffusion coefficients of decay products of radon and thoron. (B33, C52, B12). [Data] | 460939 |
| gamma radiation | |
| Radium determination in soil samples using a gamma-ray coincidence spectrometer. (B11). | 483994 |
| monitoring | |
| Optimizing measurement sensitivity to facilitate monitoring environmental levels of Rn-daughter concentrations. (B33, B32). | 469562 |
| radioecological concentration | |
| Optimizing measurement sensitivity to facilitate monitoring environmental levels of Rn-daughter concentrations. (B33, B32). | 469562 |
| washout | |
| On the removal efficiency of radon decay products by fog droplets. (B33). | 479690 |
| BITUMENS: | |
| <i>See also ASPHALTS</i> | |
| stability | |
| Survey on product properties of bituminized waste concentrates from reprocessing, nuclear installations and nuclear power plants. (E51, E52). | 488331 |
| Survey on product properties of bituminized waste concentrates from reprocessing, nuclear installations and nuclear power plants. (E51, E52). | 488331 |
| BLACK HOLES: | |
| On stellar collapse and the black hole limit from a dynamical view. (A11). | 471295 |
| Primary black holes and background electromagnetic radiation spectrum. (A15). | 475360 |
| Space, time, and gravity. The theory of the big bang and black holes. (A11, A15; Book). | 467141 |
| Stars (including black holes): list of publications. (A15). | 471759 |
| Thermal propagators and accelerated frames of reference. (A11, A15). | 483117 |
| baryon number | |
| Matter-antimatter accounting, thermodynamics, and black-hole radiation. (A15, A21). | 475426 |
| charged particles | |
| Radiation of relativistic particles moving near a black hole in an external magnetic field. (A11, A15). | 492493 |
| collisions | |
| Collisions in black-hole ergospheres and the Penrose process. (A15). | 475382 |
| cosmic gamma bursts | |
| Upper limits for γ -ray bursts from primordial black holes. (A15). [Data] | 462469 |
| cosmic radio sources | |
| A sensitive search for radio pulses from primordial black holes and distant supernovae. (A15). [Data] | 460111 |
| cosmic x-ray sources | |
| GX-339-4: a new black hole candidate. (A15). [Data] | 471906 |
| Status report on Cygnus X-1. (A15). | 467803 |
| cosmological models | |
| Cosmic censorship, black holes, and particle orbits. (A15). | 471839 |
| Radiation accretion by primordial black holes in the early universe. (A15). | 489508 |
| Spinning charged test particles and Cosmic Censorship. (A15). | 489429 |
| disturbances | |
| On the metric perturbations of the Reissner-Nordstrom black hole. (A15). | 492872 |
| einstein-maxwell equations | |
| Field of a dipole in the electrostatic of charged black holes. (A15). | 471918 |
| electric charges | |
| Scalar fields around a charged, rotating black hole. (A15). | 462420 |
| electric dipole moments | |
| Field of a dipole in the electrostatic of charged black holes. (A15). | 471918 |
| emission spectra | |
| SS433 - a massive black hole. (A15). | 471922 |
| Supermassive black holes in galactic nuclei. (A15). | 478364 |
| energy transfer | |
| Can a spherically accreting black hole radiate very near the Eddington limit. (A15). | 462417 |
| equations of motion | |
| Nonequatorial tachyon trajectories in Kerr space-time and the second law of black-hole physics. (A15, A11). | 485862 |
| evaporation | |
| The development of primordial black holes, 1. (A15). | 464536 |
| explosions | |
| Limits of space and time: exploding black holes and origin of the universe. (A15). | 478337 |
| field equations | |
| On the equations governing the perturbations of the Reissner-Nordstrom black hole. (A15, A11). | 471784 |
| gravitation | |
| "No hair" theorem for black holes in the Mansouri-Chang theory of gravitation. (A15, A11). | 475362 |
| Minicompact objects according to the bimetric theory of gravitation. (A15). | 471802 |
| gravitational collapse | |
| Gravitational collapse: a review. (A15). | 475374 |
| Low-frequency gravitational radiation from collapsing systems. (A15, A11). | 489653 |
| infrared spectra | |
| Infrared observations of the black-hole candidate V861 Sco. (A15). | 462447 |
| interactions | |
| Ultrarelativistic black-hole encounters. (A15). | 481258 |
| kerr metric | |
| The gravitational perturbations of the Kerr black hole. (A15, A11). | 471783 |
| Vortical null orbits, repulsive barriers, energy confinement in Kerr metric. (A15). | 489431 |
| luminosity | |
| Hard X-ray spectrum of Cyg X-1. (A15). | 489640 |
| magnetic fields | |
| Magnetic support near a charged rotating black hole. (A15). | 471831 |
| Trajectories of charged particles in the static Ernst space-time. (A15). | 462433 |
| magnetohydrodynamics | |
| Physics outside the horizon of a black hole. (A15). | 475394 |
| main sequence stars | |
| A precessing ring model for SS433. (A15). | 492856 |
| metrics | |
| On the equations governing the perturbations of the Reissner-Nordstrom black hole. (A15, A11). | 471784 |
| Reissner - Nordstrom - de Sitter metric, the third law, and cosmic censorship. (A15, A11). | 467857 |
| near infrared radiation | |
| SS433 - a massive black hole. (A15). | 489396 |
| neutrinos | |
| Angular dependence of neutrino emission from rotating black holes. (A15). | 489556 |
| nuclear reactions | |
| Penrose pair production as a power source of quasars and active galactic nuclei. (A15). | 489537 |
| nucleosynthesis | |
| An upper bound on the number density of primordial black holes from the big bang nucleosynthesis. (A15). | 475355 |
| pair production | |
| Particle creations in the pseudoparticle gravitational fields. (A15). | 481314 |
| particle production | |
| Particle creation by a black hole as a consequence of the Casimir effect. (A15, A11). | 460103 |
| physical properties | |
| Are black holes really there. (A15). | 467934 |
| postulated particles | |
| Maximons and the hypothesis of the maximon clusters. (A15). | 492949 |
| scalar fields | |
| Evolution of scalar perturbations near the Cauchy horizon of a charged black hole. (A15, A11). | 467823 |
| Instability of the Cauchy horizon of Reissner-Nordstrom black holes. (A15, A11). | 489581 |
| schwarzschild metric | |
| General relativity and conformal invariance. (A15). | 462484 |
| singularity | |
| General relativity and conformal invariance. (A15). | 462484 |
| Toroidal black holes. (A15, A11). | 489609 |
| space-time | |
| Irreducible mass for the Tomimatsu-Sato space-time. (A15). | 471776 |
| spatial distribution | |
| Cosmological density of black holes. (A15; Limiting conditions, evolutionary processes). | 467779 |
| stability | |
| Instability of the Cauchy horizon of Reissner-Nordstrom black holes. (A15, A11). | 489581 |
| star accretion | |
| Numerical study of a stationary accretion disk surrounding a black hole. (A15). | 481306 |
| Penrose pair production as a power source of quasars and active galactic nuclei. (A15). | 489537 |
| Radiation accretion by primordial black holes in the early universe. (A15). | 489508 |
| Some properties and problems of accretion disks about Kerr naked singularities. (A15). | 464645 |
| star clusters | |
| The fate of the debris of tidal disruption by a massive black hole in a dense star cluster. (A15). | 475262 |
| Stellar distribution around a black hole: Numerical integration of the Fokker-Planck equation. (A15). | 467786 |
| star evolution | |
| Cosmological density of black holes. (A15; Limiting conditions, evolutionary processes). | 467779 |
| Minicompact objects according to the bimetric theory of gravitation. (A15). | 471802 |
| star models | |
| The possible black hole binary HD 152667. (A15). | 471843 |
| A precessing ring model for SS433. (A15). | 492856 |
| tachyons | |
| Tachyons and the second law of black hole physics. (A15). | 475247 |
| tensor forces | |
| Hawking radiation of scalar and Dirac quanta from a Kerr black hole. (A15). | 467838 |
| test particles | |
| Spinning charged test particles and Cosmic Censorship. (A15). | 489429 |
| transmission | |
| An approximation scheme for scalar waves in a Schwarzschild geometry. (A15). | 475239 |
| trapping | |
| Magnetic support near a charged rotating black hole. (A15). | 471831 |
| twistor theory | |
| Twistors and linearized Einstein theory on plane-fronted impulsive wave backgrounds. (A15). | 481257 |

- Ultrarelativistic black-hole encounters. (A15). 481258
universe
- Black holes in the quasi-isotropic Talmán solution. (A15). 475383
visible radiation
- SS433 - a massive black hole. (A15). 489396
x-ray galaxies
- Cosmic exploration by X-rays. (A15). 478214
x-ray spectra
- Hard X-ray spectrum of Cyg X-1. (A15). 489640
- BLACKBODY RADIATION:**
- transformations
- Temperature and relativistic thermodynamics. (A11, A15). 483068
- BLADDER:**
- acute irradiation
- Limited epithelial carcinoma of the ovary treated with curative intent by the intraperitoneal installation of radiocolloids. (C15, C63, C64; ^{198}Au colloid or ^{32}P -colloidal chromic phosphate + ^{60}Co or 2 MeV Bremsstrahlung external pelvic irradiation). 461076
biological radiation effects
- Proton radiation as boost therapy for localized prostatic carcinoma. (C15, C63). 487274
- Radiosurgical treatment of endometrial carcinoma; the value of simple surgery versus extended surgery. (C15, C63, C64; Comparison of incidence of radiotherapeutic complications in relation to simple or extended surgery). 473018
- Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 473029
- biomedical radiography
- Angiography in vesical and perivesical neoplastic and non-neoplastic lesions. (C61). 473353
- Urinary bladder necrosis following selective embolization of the internal iliac artery. (C61). 470033
- carcinomas
- Clinical significance of bladder dosimetry in cases of carcinoma cervix treated by intra-cavitary radiotherapy. (C55). 461364
- cat scanning
- Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
- delayed radiation effects
- Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998
- Injury of urinary tracts following radiation therapy for carcinoma of the cervix. (C15). 476581
- Limitations of adjunctive surgery in carcinoma of the cervix. (C15, C63, C64). 473022
- Radiation management of carcinoma of the cervical stump. (C15, C63, C64; Complications following external and internal radiotherapy). 487269
- dynamic function studies
- Study of urodynamics by radioactive indicators. (C62). 482345
- early radiation effects
- Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- morphological changes
- Angiography in vesical and perivesical neoplastic and non-neoplastic lesions. (C61). 473353
- necrosis
- Urinary bladder necrosis following selective embolization of the internal iliac artery. (C61). 470033
- radiation injuries
- Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019
- radiotherapy
- Carcinoma of the bladder - the present situation. (C63). [Data] 480274
- Clinical significance of bladder dosimetry in cases of carcinoma cervix treated by intra-cavitary radiotherapy. (C55). 461364
- Radiotherapy of bladder cancer. (C63). 473507
- BLANKETS (BREEDING):**
See BREEDING BLANKETS
- BLANKETS (GAS):**
See GAS BLANKETS
- BLASTS:**
See EXPLOSIONS
- BLENDING:**
See MIXING
- BLEOMYCIN:**
- ascites tumor cells
- Lethal effects of the complex of bleomycin with high specific activity ^{64}Cu on Ehrlich ascites tumour cells. (C11). 490903
- biological effects
- Assessing chemical mutagens: the risk to humans. (C11). 487172
- cell killing
- Lethal effects of the complex of bleomycin with high specific activity ^{64}Cu on Ehrlich ascites tumour cells. (C11). 490903
- distribution
- Chemical and biological properties of bleomycin labelled with ^{57}Co . (B13, C21). 486717
- radiopharmaceuticals
- Cyclotron production of carrier-free cobalt-55, a new positron-emitting label for bleomycin. (D13). [Data] 470230
- Synthesis and properties of radioactive labelled bleomycin derivatives. (C62). 473443
- BLISTERS:**
(Resulting near or on the surface of materials due to external physical or chemical effects.)
- helium ions
- Theory of blister formation. (A13). 489022
- mathematical models
- Fracture model of radiation blistering. (B25). 490728
- BLOCKING:**
See CHANNELING
- BLOOD:**
See also BLOOD CELLS; BLOOD PLASMA; BLOOD PLATELETS; ERYTHROCYTES; LEUKOCYTES; LYMPHOCYTES; NEUTROPHILS
- activation analysis
- Evaluation of some procedures relevant to the determination of trace elemental components in biological materials by destructive neutron activation analysis. (B11). 468595
- biochemical reaction kinetics
- Metabolism of butylated hydroxytoluene in mice. Radioactivity associated with blood and expired carbon dioxide after administration of ^{14}C butylated hydroxytoluene. (C21). [Data] 494332
- destructive analysis
- Determination of manganese in blood using destructive neutron activation analysis. (B11). [Data] 493508
- extracorporeal irradiation
- Correlation of total body potassium and leukemic cell mass in patients with chronic lymphocytic leukemia. (C15; Gamma radiation). 487241
- Experimental studies on hemolysis following extracorporeal blood irradiation in sheep and goat. (C14, C63). 469638
- genetic radiation effects
- Effect of blood storage and nutrient medium on the yield of chromosome aberrations under subsequent X-irradiation. (C11). 469585
- hemolysis
- Experimental studies on hemolysis following extracorporeal blood irradiation in sheep and goat. (C14, C63). 469638
- iron 55
- Blood sample $^{59}\text{Fe}/^{55}\text{Fe}$ activity ratio measurement using a semiconductor detector. (B11, E41). [Data] 486525
- iron 59
- Blood sample $^{59}\text{Fe}/^{55}\text{Fe}$ activity ratio measurement using a semiconductor detector. (B11, E41). [Data] 486525
- irradiation devices
- Progress in developing a fully portable blood irradiator. (E41). [Data] 474089
- oxygen
- Effect of metrizamide on whole blood oxygen affinity. (C61). 473333
- radiation effects
- Abstracts of the tenth annual meeting of the Korean Nuclear Society (II-1). (C11). 469588
- radiation injuries
- Characterization of feline whole-blood cultures and determination of the frequency of radiation-induced dicentric in human and feline lymphocytes. (C11). [Data] 476524
- radionuclide kinetics
- Blood content and excretory plasma clearance of plutonium 10^4 days after injection. (C21; ^{239}Pu). [Data] 479959
- Metabolism of butylated hydroxytoluene in mice. Radioactivity associated with blood and expired carbon dioxide after administration of ^{14}C butylated hydroxytoluene. (C21). [Data] 494332
- Toward an optimal DTPA therapy for decorporation of actinides: time-dose relationships for plutonium in the dog. I. (C21). 491020
- viscosity
- Effect of ionic and non-ionic contrast media on whole blood viscosity, plasma viscosity and hematocrit in vitro. (C61). 491269
- x-ray emission analysis
- Analysis of human blood and liver tissue for copper, zinc and iron by the method of proton-induced X-ray emission analysis. (B11). [Data] 460388
- Trace element analysis of whole blood and urine samples of diabetic patients. (B11). [Data] 472366
- BLOOD CELLS:**
See also BLOOD PLATELETS; ERYTHROCYTES; LEUKOCYTES; LYMPHOCYTES; NEUTROPHILS
- acute irradiation
- Morpho-functional study of amphibian blood cells irradiated in vivo or in vitro. (C14, C11). 466018
- delayed radiation effects
- Therapy-related leukemia. A panmyelosis. (C15, C63, C64). 487249
- electromagnetic pulses
- Tests of biological integrity in dogs exposed to an electromagnetic pulse environment. (C14). [Data] 472942
- BLOOD CIRCULATION:**
- biological radiation effects
- Local blood circulation in rats receiving single or fractionated X-ray exposure. (C14). 463184
- delayed radiation effects
- Experimental study of the long-term effects of cephalic irradiation on local cerebral circulation. Preliminary results. (C14). [Data] 482022
- Late response of the cerebral circulation to X-irradiation of the brain in the rat. (C14). [Data] 482032
- diagnosis
- Automatic system for data processing in radioisotope investigations of hemodynamics. (C62). 494554
- Radioisotope investigations of blood circulation system using computer. (C62). 494557
- Scannographic and hemodynamic investigation of pulmonary blood

- circulation in case of mitral stenosis. (C62). 482411
drugs
 Methods for assessment of the effect of drugs on cerebral blood flow in man. (C62). [Data] 463463
limbs
²⁴Na investigations in estimation of blood supply of amputating limb stump. (C62). 482434
low dose irradiation
 Low-level X-radiation-induced alterations of functional haemodynamics in normal and DMBA-treated, tumour-bearing hamster cheek pouch epithelium. (C14). 482035
measuring methods
 Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471
 Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471
radiocardiography
 Clinical studies on hemodynamic assessments of valvular heart disease by means of radiopulmonary cardiography (RPG). (C62). 476788
 Radiocardiography in study of hemodynamics of small circulation circle in case of closed chest trauma. (C62). 482448
radioisotope scanning
 Peripheral vascular studies. (C62). 484735
 Radioisotope diagnosis of tissue circulation damages in case of false joints and osteomyelitis of long tubular bones. (C62). 482443
radioisotopes
 Global and regional assessment of cardiac performance by ECG-gated radionuclide blood pool imaging. (C62). 494564
radionuclide kinetics
 Regional and systemic haemodynamic changes evoked by 5-hydroxytryptamine in awake and anaesthetized rabbits. (C21). 484578
tracer techniques
 Determination of blood circulation in oral formations using Rb⁸⁶ distribution method and labelled micropearl method. (C31). 494354
 Indicator for fluid flow characteristics determination, preparation and application. (C31; (blood)). 473132
BLOOD CLOTING:
 See **BLOOD COAGULATION**
BLOOD COAGULATION:
biological radiation effects
 Changes of the antiheparin activity of the blood plasma after irradiation. (C14). 469632
lipids
 Hemocoagulation system in case of parenteral lipid nutrition during acute radiation sickness. (C14). 479852
BLOOD COAGULATION FACTORS:
 See also **FIBRINOGEN; THROMBIN**
radioassay
 An immunoradiometric assay for procoagulant factor VIII antigen: results in haemophilia, von Willebrand's disease and fetal plasma and serum. (C62). 487722
BLOOD COUNT:
acute irradiation
 Blood cell counts in dogs after whole-body irradiation under hypoxic conditions. (C14). 466027
biological radiation effects
 Gamma-ray effects on chick hemopoietic organs. (C14). 466096
external irradiation
 Peripheral blood changes after total-body X-ray exposure combined with administration of radionuclides differing in organotropism. (C14, C21). 466097
internal irradiation
 Peripheral blood changes after total-body X-ray exposure combined with administration of radionuclides differing in organotropism. (C14, C21). 466097
personnel monitoring
 Significance of blood examination in radiation workers. (C55, C15). 482272
radiation doses
 Predicting quantitative changes in human peripheral neutrophils and platelets following short-term whole-body irradiation with known bone-marrow dose distribution. (C15). 463195
BLOOD DISEASES:
 See **HEMIC DISEASES**
BLOOD FLOW:
brain
 The measurement of blood flow in the cerebral hemispheres using a radioactive tracer. (C31). 476627
cerebrum
 Methods for assessment of the effect of drugs on cerebral blood flow in man. (C62). [Data] 463463
comparative evaluations
 Comparison of regional myocardial blood flow measurements with ¹³³Xe and radioactive microspheres in dogs with coronary artery constrictions. (C62). 491352
computer-graphics devices
 Design and implementation of an equipment intended for continuous follow up of cardiac flow from the gamma-cardiogram. (C31). 473120
data acquisition systems
 Microprocessed acquisition and computerized data treatment to measure cutaneous and sub-cutaneous blood flow using ¹³³Xenon tracer. (C31). 473131
liver
 Liver perfusion scintigraphy after experimental ligation of hepatic artery or portal vein of the dog. (C45, C62). 484627
measuring methods
¹³³Xenon inhalation method: significance of indicator maldistribution for distinguishing brain areas with impaired perfusion. An index for total flow. (C62). 470076
 Assessment of non-invasive measurement method of cerebral blood flow using Xe ¹³³. (C31). 473126
 Blood flow and tracer uptake in normal and abnormal canine bone: comparisons with Sr-85 microspheres, Kr-81m, and Tc-99m MDP. (C62, C21, C31). 487709
 Cardiac imaging with tantalum-178. (C62). 487697
 Carotid and regional cerebral blood flow: combined non invasive measurement with radionuclides. (C31). 473113
 Diagnostic merits of current and potential applications of single photon and positron imaging: a perspective. (C62, C31). 461406
 Effects of injection site, age, and body position on cervical venous reflux. (C62; /sup 99m/Tc-DTPA). 470133
 Effects of maximal exercise stress on left ventricular function in patients with coronary artery disease using first pass radionuclide angiography. (C62, C31; /sup 99m/Tc-perchnetate). 487699
 Measurement of local cerebral blood flow with Indo [14C] antipyrine. (C62; ¹³¹I, rats, cats). 470155
 Multiple regions of absent bone mineral and marrow function in a patient with chronic renal failure. (C62, C31; /sup 99m/Tc-methylene diphosphonate and sulfur colloid for bone mineral and bone marrow studies respectively). 494545
 Precision and accuracy of cerebral blood flows obtained from the clearance curves of intracarotidally injected Xenon ¹³³. (C31). 469823
 R-wave synchronized blood-pool imaging. (C62, C61; /sup 99m/Tc-red blood cells). 487743
 Regional ejection fraction: a quantitative radionuclide index of regional left ventricular performance. (C62; /sup 99m/Tc-perchnetate). 487712
 Renal hyperconcentration of /sup 99m/Tc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of /sup 99m/Tc-HEDP, -DMSA, and -DTPA in rabbits). 487707
 Reproducibility of ejection fraction and ventricular volume by gated radionuclide angiography after myocardial infarction. (C62, C31; /sup 99m/Tc-human serum albumin and /sup 99m/Tc-perchnetate). 487741
 Sensitivity of computed tomography and serial scintigraphy in cerebrovascular disease. (C62, C61; /sup 99m/Tc-perchnetate). 487683
 Transient defects of resting thallium scans in patients with coronary artery disease. (C62). 487689
myocardium
 Comparison of regional myocardial blood flow measurements with ¹³³Xe and radioactive microspheres in dogs with coronary artery constrictions. (C62). 491352
radioisotope scanning
 Cadmium telluride /sup 133Xe clearance detector for muscle blood flow studies. (C62, E41). 466405
tracer techniques
 The measurement of blood flow in the cerebral hemispheres using a radioactive tracer. (C31). 476627
 Tracer preparation and method for its production. (B13, C62). 472492
BLOOD FORMATION:
 See also **ERYTHROPOIESIS; LEUKOPOIESIS; THROMBOPOIESIS**
antimitotic drugs
 Influence of selected cytostatic agents on hemopoietic tissue radiosensitivity in mice. (C14). 465983
biological doseimeters
 Potentialities of "biological dosimetry" of postirradiation changes in man blood formation. (C15). 479926
biological models
 Enhanced granulocyte growth on peritoneal cell-coated membranes following irradiation: a dual effect of humoral stimulation and repair of x ray-induced damage to the microenvironment. (C14). 461057
biological radiation effects
 Hemopoietic stem cell niches, recovery from radiation and bone marrow transfusions. (C14; X radiation, mice). [Data] 487209
 Kinetic basis for compensated hemopoiesis during continuous irradiation with low doses. (C14; γ rays; mice). [Data] 476556
 On biological interpretation of the activity of bone marrow hemopoiesis as function of radiation dose. (C14). 484512
 Role of RES functional state (blockage or stimulation) in production of hormonal regulators of hemopoiesis under radiation damage conditions. (C14). 463106
dose-response relationships
 Activity of bone-marrow hemopoiesis of man as function of γ-radiation dose. (C55). 484692
mathematical models
 Mathematical model, and its biological interpretation, for radiation dose dependence of bone-marrow hemopoietic activity. (C14). 465999
 Modelling postradiation kinetics of hemopoietic stem cell repopulation. (C14). 466026
mice
 Haemopoiesis in mice one year after ⁸⁹Sr-induced marrow aplasia. (C21). [Data] 463215
partial body irradiation
 Hemopoiesis recovery from local irradiation in rats. (C14). 466114
radiation syndrome
 Susceptibility of blood-forming organs to damage by prolonged gamma-ray exposure. (C14). 466145
radiotherapy
 Mobilization of hemopoiesis under large-scale irradiation. (C14). 479860

- testosterone
Haemopoietic effects of 7 alpha, 17 beta dimethyltestosterone.
(C14). [Data] 476552
- thymus cells
Role of thymus cells in hemopoiesis processes of irradiated
organism. (C14). 479853
- tritium oxides
Impairment of hemopoiesis in mice after single injection of tritium
oxide. (C21). 484566
- BLOOD PLASMA:**
- multi-element analysis
A chamber for PIXE-analysis of biological samples at atmospheric
pressure. (E41). 492146
- neutron activation analysis
Multi-element analysis of blood for trace metals by neutron
activation analysis. (B11). 460430
- radioassay
Further comparison of radioassay results for serum and plasma.
(C62; ¹²⁵I tracer technique). 461413
- Specific methods for the determination of radioactivity in D-(-)-3-
hydroxybutyrate in blood plasma. (C31). 494353
- radioimmunology
Radioimmunological determination of ACTH and cortisole
concentration in blood plasma in case of rheumatic heart disease.
(C62). 482389
- radionuclide kinetics
Distribution of ²³⁹Pu in neonatal beagles. (C21; ²⁴¹Am). 461084
- selenium 75
In vitro metabolism of selenite in sheep blood. Factors controlling
the distribution of selenium and the labelling of plasma protein.
(C21). 461098
- technetium 99
Plasma protein binding of sup(99m)Tc-pyrophosphate. (C62). 470154
- uranium
Uranium in blood. (B11). 478830
- viscosity
Effect of ionic and non-ionic contrast media on whole blood
viscosity, plasma viscosity and hematocrit in vitro. (C61). 491269
- x-ray emission analysis
X-ray emission analysis of human plasma by proton excitation of
thick samples in air. (B11). 490288
- BLOOD PLATELETS:**
- activation analysis
Elemental composition of platelets. Part II. Water content of
normal human platelets and measurements of their concentrations
of Cu, Fe, K, and Zn by neutron activation analysis. (B11;
Neutrons). 486521
- antibodies
Antiheparin proteins secreted by human platelets. Purification,
characterization, and radioimmunoassay. (C62; ¹²⁵I tracer
techniques). [Data] 466424
- biological radiation effects
Changes of adenylate energy charge of hog blood lymphocytes,
platelets and erythrocytes following gamma irradiation. (C11). 469586
- Hydroxyurea or placebo combined with radiation to treat stages
IIIB and IV cervical cancer confined to the pelvis. (C15, C63,
C64; External γ radiation and intracavitary cesium, cobalt or
radium). 487254
- Hydroxyurea or placebo combined with radiation to treat stages
IIIB and IV cervical cancer confined to the pelvis. (C15, C63,
C64; External γ radiation and intracavitary cesium, cobalt or
radium). 476582
- Long term follow-up of combination chemotherapy-radiotherapy of
Stage III Hodgkin's disease. A Cancer and Acute Leukemia
Group B study. (C15, C63). 487253
- chemical composition
Results of total body irradiation in the treatment of advanced non-
Hodgkin's lymphomas. (C15). 476578
- labelling
Radioactive indium labelling of the figured elements of blood.
Method, results, applications. (B13, C62). 484073
- life span
Cell labelling. Granule and platelet kinetics. Recent concepts. (C31). 484602
- Relation between age and platelet density. (C31). 491083
- molecular structure
Studies of human platelets by ¹⁹F and ³¹P NMR. (C21). 461086
- neutron activation analysis
Elemental composition of platelets. Part III. Determination of Ag,
Au, Cd, Co, Cr, Cs, Mo, Rb, Sb, and Se in normal human
platelets by neutron activation analysis. (B11; Neutrons). 486519
- Elemental composition of platelets. Part I. Sampling and sample
preparation of platelets for trace-element analysis. (B11). 486515
- preservation
Physiopathology of blood platelets: a model system for studies of
cell-to-cell interaction. Comprehensive three year progress report,
August 1, 1975 - October 31, 1978. (C52). 476678
- radiation injuries
Thromboelastogram of dogs after inhalation of ²⁴¹Am and ²³⁹Pu
nitrites. (C21). 484562
- radioimmunoassay
Plasma levels of platelet factor 4 measured by radioimmunoassay.
(C45). [Data] 476650
- radiopharmaceuticals
Imaging experimental infective endocarditis with indium-111-labeled
blood cellular components. (C62, C21; Rabbits, aortic valve). 487730
- BLOOD PRESSURE:**
- biological radiation effects
Effects of adrenalectomy, adrenal regeneration, and renal irradiation
on blood pressure. (C14; X rays; rats). [Data] 476568
- Neonatal irradiation nephropathy in the growing dog. II. Plasma
renin activity and arterial pressure following neonatal, sublethal,
whole-body irradiation. (C14; γ rays; beagles). [Data] 479875
- BLOOD SERUM:**
- biological radiation effects
Extra-renal effects of perinatal irradiation: clinical metabolic studies
on beagles with chronic renal failure. (C14; Gamma radiation).
[Data] 479848
- chemical analysis
Simultaneous radioassay of folate and vitamin B₁₂. (B11, C31;
Patent). 478817
- diagnosis
Radiodiagnostic complexts for determining thyroxine-binding ability
of globulins and common thyroxin of serum. (C62). 482440
- ioglycamic acid
Effects of steroid hormones on the binding of ioglycamide
(bilivistan) to human blood serum. (C21). 469804
- III
Effect of Sulpirid on blood serum prolactin- and TSH-levels. (C45). 494376
- quantity ratio
Examination of alpha₂-foetoprotein concentration of blood serum in
chronic diffuse hepatic diseases. (C45). [Data] 491100
- radioassay
Further comparison of radioassay results for serum and plasma.
(C62; ¹²⁵I tracer technique). 461413
- radioimmunoassay
Increased serum oestrone and oestradiol following spironolactone
administration in hypertensive men. (C45). [Data] 463344
- Rat spleen leucocyte (RSL) radioimmunoassay for the detection and
quantification of soluble immune complexes. (C45). 482162
- rare earths
Binding of rare earths to serum proteins and DNA. (C45). 469887
- tsh
Effect of Sulpirid on blood serum prolactin- and TSH-levels. (C45). 494376
- x-ray emission analysis
Proton induced X-ray emission analysis of trace elements in human
blood serum. (B11). 490277
- BLOOD SUBSTITUTES:**
See also DEXTRAN; PVP
- BLOOD VESSELS:**
See also AORTA; ARTERIES; CAPILLARIES; CAROTID ARTERIES;
CORONARIES; PORTAL SYSTEM; VEINS
- biological radiation effects
After-loading transperineal iridium-192 wire implantation of the
prostate. (C15, C64; Complications following interstitial
radiotherapy). 487263
- Influence of localized preinoculation irradiation of the foot on
lymphatic metastasis from a primary tumor growing in the foot.
(C14, C63). [Data] 476567
- The role of vascular disorders in pathogenesis of intestinal radiation
syndrome. (C14). 479861
- Treatment of Stages I and II cancer of the cervix: analysis of 5
year survival and recurrence rates. (C15, C63, C64; Effects of
surgery an incidence of complications following radiotherapy). 473029
- biomedical radiography
DESY: computer angiography. (C61). 480205
- Possibilities of roentgenological and radioisotopic investigations in
diagnosis of arteria-venous anastomosis. (C61, C62). 480240
- delayed radiation effects
Blood flow clearance changes in pig skin after single doses of X-
rays. (C14). 490966
- Response of mesenteric blood vessels to irradiation. (C14; ⁹⁰Sr β
applicator applied to exteriorized vessels). [Data] 476558
- pathology
Neutron and gamma-ray toxicity studies. (C14; Mice, beagles, ¹³³Xe
tracer technique). 469625
- scintiscanning
Demonstration of bleeding site by /sup 99m/Tc-labeled red cells.
(C62, C61, C31). 487738
- Radionuclide quantitation of left-to-right cardiac shunts in children.
(C62). 476800
- Radionuclide venography and lung scanning: concise
communication. (C62; /sup 99m/Tc-serum albumin microsphere
venography and ¹³³Xe ventilation scintiscanning). 473400
- Sensitivity of computed tomography and serial scintigraphy in
cerebrovascular disease. (C62, C61; /sup 99m/Tc-perchnetate). 487683
- BLOOD-BRAIN BARRIER:**
- biomedical radiography
Blood-brain barrier opening by isotonic saline infusion in
normotensive and hypertensive animals. (C61). 491286
- radionuclide kinetics
Contrast enhanced CT scan and radionuclide brain scan in
supratentorial gliomas. (C62, C61, C21; /sup 99m/Tc-
perchnetate). 473409
- BLOOD-PLASMA CLEARANCE:**
- radionuclide administration
Cadmium telluride \S sup 133 \S xe clearance detector for muscle blood
flow studies. (C62, E41). 466405
- BLOWDOWN:**
Results of the first nuclear blowdown test on single fuel rods
(LOC-11 Series in PBF). (C52, E32). 461240

- computer codes**
Theoretical studies on the free-blowing process of the vent pipes in the pressure suppression system. (C52). 466273
- condensation chambers**
Vent pipe for discharge devices, serving to limit overpressures in nuclear power plants, especially boiling water power plants. (E31). 466676
Vent pipe for discharge devices, serving to limit overpressures in nuclear power plants, especially boiling water power plants. (E31). 466675
- containment shells**
Dynamic behaviour of the spherical containment shell of a boiling water reactor during condensation of steam in the pressure suppression system. (E31). 477202
- critical flow**
Multidimensional effects in critical two-phase flow. (C52, E32, E11; PWR). 466334
- critical heat flux**
Occurrence of critical heat flux during blowdown with flow reversal. (E32). 480648
- dryout**
Dryout delay during blowdown. (C52, E31). 480023
- f codes**
Efficient computations of three-dimensional fluid-structure interactions during blowdown of a pressurized water reactor - FLUX. (E32). 470682
- fluid flow**
Effects of dissolved gas and downstream geometry during blowdown of a subcooled liquid. (C52, E32, E11; PWR). 487440
Experiment data report for semiscale Mod-3 integral blowdown and reflow heat transfer test S-07-6 (Baseline Test Series). (C52, E32, E11; PWR). 461203
Experiments and nonequilibrium analysis of pipe blowdown. (C52, E31, E32, E11; BWR; PWR). 461326
- heat transfer**
Experiment data report for semiscale Mod-3 integral blowdown and reflow heat transfer test S-07-6 (Baseline Test Series). (C52, E32, E11; PWR). 461203
Experiments and nonequilibrium analysis of pipe blowdown. (C52, E31, E32, E11; BWR; PWR). 461326
Heat transfer considerations for the first nuclear blowdowns. (C52, E32, E11; PWR). 487582
PWR blowdown heat transfer separate-effects program data evaluation report. THTF test series II. (C52, E32). 473246
Surface heat flux perturbations in BDHT fuel pin simulators. (C52, E32; PWR). 480123
Synopsis of the BWR blowdown heat-transfer program. (C52, E31, E11). 466281
- hydraulics**
Effects of dissolved gas and downstream geometry during blowdown of a subcooled liquid. (C52, E32; PWR). 473214
- mass transfer**
Blowdown mass flow measurements during the Power Burst Facility LOC-11C test. (C52, E32). 491126
- pressure gradients**
Effects of dissolved gas and downstream geometry during blowdown of a subcooled liquid. (C52, E32; PWR). 473214
- pressure vessels**
Efficient computations of three-dimensional fluid-structure interactions during blowdown of a pressurized water reactor - FLUX. (E32). 470682
- r codes**
A multiple volume blowdown experiment and comparison with RELAP-UK predictions. (E32, E34). 477234
- simulation**
An analysis of loft L1-2 experiment by ALARM-PI computer code. (E32). 491908
Analysis of the General Electric Company swell tests with RELAP4/MOD7. (C52, E31; BWR). 487480
Heat transfer considerations for the first nuclear blowdowns. (C52, E32, E11; PWR). 487582
Occurrence of critical heat flux during blowdown with flow reversal. (E32). 480648
- two-phase flow**
Application of implicit numerical methods to problems in two-phase flow. (C52, E31, E32, E11; BWR; PWR). 487527
Multidimensional effects in critical two-phase flow. (C52, E32, E11; PWR). 466334
ORNL PWR-BDHT two-phase flow instrumentation and analysis improvements. (C52, E32; Thermal Hydraulics Test Facility). 461190
Propagation of phase-change fronts in moving fluids. (C52, E32, E11; PWR). 469933
- void fraction**
Measurements of void fraction in the pipe line during blowdown. (E34). 480673
- wave propagation**
Pressure wave propagation in a liquid with a flashing. (E11). [Data] 480352
- BLOWERS:**
- reactor materials**
High cycle fatigue of Type 422 stainless steel. (E33, B22; HTGR). 473938
- testing**
Durability testing device. (E32). 473897
- BN-350 REACTOR:**
- construction**
The BN-350 reactor. Development, construction and operating experience. (E35). 466736
- reactor operation**
The BN-350 reactor. Development, construction and operating experience. (E35). 466736
- BNL:**
- computers**
Large mass storage facility. (F50). 474386
- van de graaff accelerators**
Major improvements at Brookhaven since the beginning. (E16). 477075
- BNPS-1 REACTOR:**
See *BELOYARSK-1 REACTOR*
- BODY:**
See also *more specific entries as listed in the INIS Thesaurus.*
- biomedical radiography**
Improvements in or relating to radiography. (C61). 476767
- cuex**
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- dose commitments**
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
- radiation doses**
Protective action evaluation, Part 1. Effectiveness of sheltering as a protective action against nuclear accidents involving gaseous releases. (C54, B33, C52, C15). 487627
- BODY AREAS:**
See also *ABDOMEN; ARMS; CHEST; FACE; FEET; FINGERS; HANDS; HEAD; LEGS; LIMBS; NECK; NOSE; PELVIS*
- topography**
Theoretical aspects and practical applications of moire topography. (C63). 473527
- BODY BURDEN:**
- age dependence**
Distribution of fallout plutonium in southern Finns. (C21, C22). 473074
[Data] Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- bone joints**
Radiation exposure due to X-rays of the hip joint in babies. (C55). 461355
Reducing radiation exposure during hip joint X-rays in infants by means of a special radiographic technique. (C54). 461338
- infants**
Radiation exposure due to X-rays of the hip joint in babies. (C55). 461355
- mmu**
Effects of X-ray exposition on the human-natural and civilisatory influences. (C15). 484545
- x-ray radiography**
Reducing radiation exposure during hip joint X-rays in infants by means of a special radiographic technique. (C54). 461338
- BODY CENTERED CUBIC:**
See *BCC LATTICES*
- BODY COMPOSITION:**
- isotope dilution**
Effect of different dietary energy levels on the body composition of Muzaffarnagari lambs fattened to different body weights. (C44). 482161
- quantitative chemical analysis**
Measurement of the body content of sodium, potassium, chloride, calcium, phosphorus and nitrogen with reference to spirinolactone. (B11, C45). 472322
- BODY FLUIDS:**
See also *BILE; BLOOD; BLOOD CELLS; BLOOD PLASMA; BLOOD PLATELETS; CEREBROSPINAL FLUID; ERYTHROCYTES; LEUKOCYTES; LYMPHOCYTES; MILK; NEUTROPHILS; SALIVA; URINE*
- radioactivity**
Effects of chronic ingestion of tritiated water on prenatal brain development. (C21; Rats). 473104
- radioassay**
Assay for intrinsic factor based on blocking of the R binder of gastric juice by cobinamide. (C62; ⁵⁷Co tracer technique). 487679
- ruminants**
Water requirement and total body water estimation as affected by species, pregnancy and lactation using tritiated water. (C14). 490960
- simulation**
Simulants of lung interstitial fluid. (C21). 487304
- BODY TEMPERATURE:**
See also *HYPOTHERMIA*
- biological radiation effects**
Environmental physiology. (C14; Gamma radiation, rodents). 469633

- mathematical models**
Thermoregulation of fish and turtles in thermally stressed habitats. Annual progress report, October 1, 1977 - September 30, 1978. (B32). 472858
- BOHR APPROXIMATION:**
See *NILSSON-MOTTETSON MODEL*
- BOHR-MOTTETSON MODEL:**
See *NILSSON-MOTTETSON MODEL*
- BOHUNICE A-1 REACTOR:**
environmental impacts
Radioactivity in the hydrosphere due to A-1 nuclear power plant operation. (B32). 494223
personnel monitoring
Internal contamination monitoring of A-1 nuclear power plant personnel in 1974 to 1976. (C21). 494333
pressure vessels
Evaluation of A-1 reactor heavy-water calandria specimens. (E34). 488111
radioactive effluents
Surveillance programmes for A-1 reactor pressure vessel materials. (E34). 484975
radioactive waste processing
Gaseous and liquid radioactive leaks from A-1 nuclear power plant. (C52, C55). 494400
Processing radioactive wastes from nuclear power plants in Czechoslovakia. (E51). 488346
reactor control systems
Experimental direct digital control of the power plant A1 reactor based on a modern control theory approach. (E24). 463608
Tesla RPP 16 computer special hardware and utility software for experimental process control of the A1 power plant reactor. (E24). 463607
reliability
Current state of nuclear power plant reliability data systems in Czechoslovakia. (E34). 463659
- BOHUNICE V-1 REACTOR:**
cesium 134
Utilization of radiochemical and mass-spectrometric analysis of the spent fuel of the A-1 power plant for non-destructive burn-up determination. (B16). 490526
fuel scanning
Utilization of radiochemical and mass-spectrometric analysis of the spent fuel of the A-1 power plant for non-destructive burn-up determination. (B16). 490526
radioactive waste processing
Processing radioactive wastes from nuclear power plants in Czechoslovakia. (E51). 488346
- BOHUNICE V-2 REACTOR:**
radiation monitoring
Radiation monitoring systems in V-2 nuclear power plant. (C54, C55). 461343
- BOILERS:**
See also *STEAM GENERATORS*
cleaning
A contribution to the acid cleaning of boilers. (B15). 486790
control systems
Application of programmable controllers to oil fired boiler light-off system. (E37). 461808
corrosion
A corrosion phenomenon of steam generators in pressurized water reactors. (B15). 462811
reliability
Application of programmable controllers to oil fired boiler light-off system. (E37). 461808
water chemistry
A corrosion phenomenon of steam generators in pressurized water reactors. (B15). 462811
- BOILING:**
See also *DEPARTURE NUCLEATE BOILING; FILM BOILING; NUCLEATE BOILING; POOL BOILING; SUBCOOLED BOILING; TRANSITION BOILING*
critical heat flux
Upper limit of CHF in the saturated forced convection boiling on a heated disk with a small impinging jet. (E11). 491468
heat transfer
Boiling heat transfer and stability problems. Final report, November 1, 1976 - March 31, 1979. (E11). 491466
mass transfer
Boiling heat transfer and stability problems. Final report, November 1, 1976 - March 31, 1979. (E11). 491466
two-phase flow
A numerical method for a transient two-fluid model. (E11). 470299
- BOILING DETECTION:**
Interpreting two state instruments for intermediary values. (E42). 488294
Two-phase flow phenomena in nuclear reactor technology. (C52, E32; PWR). 469961
reactor noise
The BOR-60 sodium boiling experiment. (E35). 488113
sodium
The BOR-60 sodium boiling experiment. (E35). 488113
- BOILING WATER COOLED AND MODER:**
See *BWR TYPE REACTORS*
- BOLL WEEVIL:**
pest control
Probes. Progress report, October 1, 1977 - September 30, 1978. (B11, C44; X-ray fluorescence analysis of boll weevils for fingerprinting in monitoring eradication program). 486512
- BOLOMETERS:**
ultralow temperature
A bolometer for 0.3 kelvin radiation. (E41). 474091
uses
Microbolometers for infrared detection. (E41). 480769
- BOLTED JOINTS:**
fatigue
Fatigue behaviour of bolted connections. (E17). 470450
- BOLTING:**
See *FASTENING*
- BOLTS:**
See *FASTENERS*
- BOLTZMANN COLLISION INTEGRAL:**
See *BOLTZMANN EQUATION*
- BOLTZMANN EQUATION:**
helium 3
Spin-zero-sound solutions of the quasi-particle Boltzmann equation in normal ³He. (A33). [Data] 481503
hydrodynamics
Asymptotic equivalence between the hydrodynamic and kinetic stages for the Lorentz model. (A11). 477572
iterative methods
Computer code for numerical solution of the Boltzmann equation in plane geometry. (F51). 488521
kinetic equations
Asymptotic equivalence between the hydrodynamic and kinetic stages for the Lorentz model. (A11). 477572
m codes
A solution algorithm for calculating photon radiation fields with the aid of the Monte Carlo method. (A32). 464944
numerical solution
Methods and applications of Monte Carlo in low energy (less than or equal to 20 MeV) neutron-photon transport (MORSE). Part I. Methods. (A32, A31). 460264
Numerical aspects of the approach to a Maxwellian distribution. (A11). 463925
weakly ionized gases
Study of the spatial variation of macroscopic quantities in a weakly ionized gas. (A12). 488880
- BOLTZMANN TRANSPORT EQUATION:**
See *BOLTZMANN EQUATION*
- BOLTZMANN-VLASOV EQUATION:**
boundary conditions
Formulation of the linearized Vlasov-fluid model for a sharp-boundary screw pinch. (A14). 464396
conservation laws
An infinite series of conservation laws and group structure of the Liouville equation. (A11). 477602
- BONDING:**
(For joining metals and other materials. For nuclear or chemical bonding, see also *BINDING ENERGY*.)
very high temperature
Influence of gas impurities on the solid-state bonding of Nb/Al₂O₃ composites above 1200°C. (B21). 479343
- BONE CELLS:**
biological radiation effects
Studies of the mechanism of spleen cell cure for osteoporosis in rats: appearance of osteoclasts with ruffled borders. (C14; Whole body irradiation). 469649
- BONE DISEASES:**
See *SKELETAL DISEASES*
- BONE FRACTURES:**
Skeletal scintigraphy following incidental trauma. (C62; /sup 99mTc-pyrophosphate). 470118
biomedical radiography
Birth injuries to the epiphyseal cartilage. (C61). 461371
healing
Experimental fracture healing: evaluation using radionuclide bone imaging: concise communication. (C62, C31; /sup 99mTc-methylene diphosphonate; rabbits). 470102
scintiscanning
Bone clearance and bone scintiscanning during healing of fractures. (C62). 470117
Scintigraphic control of the healing process of fractures. (C62). 470145
Scintigraphic examinations of fractures and malignancies in the maxillofacial region. (C62). 470150
- BONE JOINTS:**
biomedical radiography
The 'pre-erosive' radiologic signs of rheumatoid arthritis in soft tissue radiography of the hands. (C61). 461383
Angiography in case of aseptic osteonecrosis of hip joint of adults. (C61). 480208
Arthrography of the ankle. (C61). 473372
Gastrocnemio-semimembranosus bursa and its relation to the knee joint. IV. (C61). 473371
Gastrocnemio-semimembranosus bursa and its relation to the knee joint. III. (C61). 470047
Movements in the sacroiliac joints demonstrated with roentgen stereophotogrammetry. (C61). 480219
Patella alta and gonarthrosis. (C61). 473330
Radiologic determination of rotational instability of the knee joint. (C61). 473368
compression
Gastrocnemio-semimembranosus bursa and its relation to the knee joint. III. (C61). 470047
delayed radiation effects
Is there a place for chemical and radiation synovectomy in rheumatic diseases. (C64). 487760

- legs
Lymphatics filled at knee arthrography. (C61). 480229
- ligaments
Arthrography of the ankle. (C61). 473372
- lymph vessels
Lymphatics filled at knee arthrography. (C61). 480229
- radiation source implants
Is there a place for chemical and radiation synovectomy in rheumatic diseases. (C64). 487760
- rotation
Movements in the sacroiliac joints demonstrated with roentgen stereophotogrammetry. (C61). 480219
Radiologic determination of rotational instability of the knee joint. (C61). 473368
- scintiscanning
Boul scintiscanning in arthritis. (C62). 470168
Dynamic explorations with sup(99m)Tc labelled red cells in the algodystrophies. (C45). 463345
Sacroiliitis detected by bone scintiscanning: a clinical, radiological, and scintigraphic follow-up study. (C62). 473410
- BONE MARROW:**
- biological effects
Accessory cell requirements for lymphoma growth in vitro and in irradiated mice. (C14; Gamma radiation). [Data] 472988
- biological radiation effects
Bone-marrow damage in dogs after whole-body irradiation under hypoxic conditions. (C14). 466028
Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 487254
Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
Long term follow-up of combination chemotherapy - radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
Sequential hemi-body radiotherapy in advanced multiple myeloma. (C15, C63; Side effects of indicated x-ray therapy). 469700
- biological regeneration
The enhancement of haemopoietic stem cell recovery in irradiated mice by prior treatment with cyclophosphamide. (C14). 487206
Influence of adrenergic stimulation by isoprenaline and cholinergic stimulation by acetyl-beta-methyl choline on hemopoietic stem cell differentiation. (C14). 466046
The problem of hemopoietic tissue recovery from acute radiation pathology (undifferentiated bone-marrow cell colonies). (C14, C15). 494295
- blood flow
Multiple regions of absent bone mineral and marrow function in a patient with chronic renal failure. (C62, C31; /sup 99m/Tc-methylene diphosphonate and sulfur colloid for bone mineral and bone marrow studies respectively). 494545
- delayed radiation effects
The enhancement of haemopoietic stem cell recovery in irradiated mice by prior treatment with cyclophosphamide. (C14). 487206
Therapy-related leukemia. A panmyelosis. (C15, C63, C64). 487249
- insulin
Effect of insulin on postradiation obesity of bone marrow. (C14). 469628
- neutron beams
The effect of a 600 MeV neutron beam on mouse bone marrow. (C14). [Data] 476557
- radiation dose distributions
Calculation of mean bone marrow doses with account of the real spectrum of X radiation. (C55). 466359
- radiation doses
Absorbed bone marrow dose in certain dental radiographic techniques. (C15, C61). 473031
Absorbed doses to patients and personnel from endoscopic retrograde cholangiopancreatographic (ERCP) examinations. (C15, C61). 494313
Determination of gonad, eye and bone marrow doses with EM1-5005 head and whole body scans. (C55). [Data] 491252
Dose-response relationship of neutrons and γ rays to leukemia incidence among atomic bomb survivors in Hiroshima and Nagasaki by type of leukemia, 1950 - 1971. (C15). 476584
- radioactivity
Relative ^{239}Pu content of bone and bone marrow. (C21; Dogs). [Data] 473071
- radionuclide kinetics
Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
- radiopharmaceuticals
Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
- radioprotective substances
Radiation protection by superoxide dismutase. (C14). 463167
- radiosensitivity
Comparative study of cell radiosensitivity in normal or regenerating bone marrow. (C14). 466092
- rbe
Dose-rate effects of high-energy whole-body irradiation on survival rate and hematopoietic organs in animals. (C14). 466048
- scintiscanning
Contribution of the scintigraphy in the study of the hemopoietic bone marrow. (C45). 463335
Diffuse pulmonary uptake of indium-111 chloride in idiopathic myelofibrosis. (C62, C21). 494566
Double medullary scintigraphy using sup(99m)Tc-colloids and ^{111}In -transferrin in myeloid splenomegaly. (C62). 491314
Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
Investigation of hematopoietic tissues and particularly of bone marrow. (C62). 484760
Marrow scintigraphy in Paget's disease of bone. (C62). 473460
Marrow scintigraphy in Paget disease. (C62). 484723
Multiple regions of absent bone mineral and marrow function in a patient with chronic renal failure. (C62, C31; /sup 99m/Tc-methylene diphosphonate and sulfur colloid for bone mineral and bone marrow studies respectively). 494545
- stem cells
The enhancement of haemopoietic stem cell recovery in irradiated mice by prior treatment with cyclophosphamide. (C14). 487206
- stimulation
Influence of adrenergic stimulation by isoprenaline and cholinergic stimulation by acetyl-beta-methyl choline on hemopoietic stem cell differentiation. (C14). 466046
- strontium 89
Haemopoiesis in mice one year after ^{89}Sr -induced marrow aplasia. (C21). [Data] 463215
- transfusions
Hemopoietic stem cell niches, recovery from radiation and bone marrow transfusions. (C14; X radiation, mice). [Data] 487209
- transplants
Bone marrow transplantation and other treatment after radiation injury. (C15). 463194
Bone marrow transplantation for correction of enzyme deficiency disease. (C14; X radiation, mice). 466010
Bone marrow transplantation. (C14; Mice, gamma radiation). 466109
Generation of protein-specific and alloantigen-specific suppressor cells following total lymphoid irradiation in mice. (C14). 466102
GVHD suppression by incubation of bone marrow grafts with anti-t-cell globulin: effect in the canine model and application to clinical bone marrow transplantation. (C14). [Data] 466080
Marrow graft rejection in DLA-identical canine littermates: antigens involved are expressed on leukocytes and skin epithelial cells but probably not on platelets and red blood cells. (C14; Gamma radiation). [Data] 466108
Phase-II trial of fractionated total body radiation in bone marrow transplantation for acute leukemia. (C15; X radiation). 466157
Protective environment for marrow transplant recipients. A prospective study. (C60, C15). 461367
Radiobiological considerations in the use of total-body irradiation for bone-marrow transplantation. (C15, C63; Ablation of bone marrow stem cells prior to transplant in treatment of leukemia). 473020
Successful bone marrow transplantation in sensitized recipients. (C11, C15; Effect of in vitro irradiation on cytotoxicity of bone marrow cells). 465909
Total-body irradiation and host reconstitution with stored autologous marrow: an experimental model for the induction of allogeneic unresponsiveness in large mammals. (C14; Dogs). 466076
Transplantation of autoimmune potential. IV. Reversal of the NZB autoimmune syndrome by bone marrow transplantation. (C14; X radiation). 479845
Transplantation of bone marrow in outbred dogs without graft-versus-host disease using total lymphoid irradiation. (C14). 479857
- x-ray dosimetry
Computer program for organ doses in diagnostic radiology. Final report May 78. (C15, C61). 472989
- BONE MARROW CELLS:**
- Drug-induced chimerism and prevention of graft-versus-host disease in lethally irradiated mice transplanted with rat bone marrow. (C14; Gamma radiation). 479851
- anoxia
Investigation of the effect of anoxia and cystamine on the total protein content and the level of thiols in myeloid cells of bone marrow of mice. (C21). 484556
- biological dosimeters
Bone marrow electronic cell sizing and counting for biological dosimetry of the irradiated rat. (C14). [Data] 472975
- biological effects
Diagnostics and treatment of human bone-marrow lesions using the cyclophosphamide action model. (C15). 466153
- biological radiation effects
Gamma-ray effects on chick hemopoietic organs. (C14). 466096
Radiobiological considerations in the use of total-body irradiation for bone-marrow transplantation. (C15, C63; Ablation of bone marrow stem cells prior to transplant in treatment of leukemia). 473020
Successful bone marrow transplantation in sensitized recipients. (C11, C15; Effect of in vitro irradiation on cytotoxicity of bone marrow cells). [Data] 465909
- delayed radiation effects
Comparison of late effects of single x-ray exposure, chronic tritiated water ingestion, and chronic cesium-137 gamma exposure in mice. (C14, C21). 479818
- dose-response relationships
Bone marrow electronic cell sizing and counting for biological dosimetry of the irradiated rat. (C14). [Data] 472975
- gamma radiation
Serum-mediated differences in depth-related cell inactivation with ^{60}Co gamma rays. (C11). [Data] 476500

- genetic radiation effects**
Study of somatic cell mutability of the progeny of irradiated male rats. (C14). 479872
- hodgkins disease**
Autotransplantation of bone marrow in radiotherapy of Hodgkins disease according to radical program. (C15). 479899
- image scanners**
Erythroid marrow imaging with radio-iron (iron-59). (C62). 463466
- iron 59**
Erythroid marrow imaging with radio-iron (iron-59). (C62). 463466
- karyotype**
Transplantation of bone marrow in outbred dogs without graft-versus-host disease using total lymphoid irradiation. (C14). [Data] 479857
- lethal irradiation**
A new pre-irradiation conditioning regimen which protects against radiation injury and facilitates engraftment of xenogeneic bone marrow. (C14). 463170
- mea**
Investigation of the effect of anoxia and cystamine on the total protein content and the level of thiols in myeloid cells of bone marrow of mice. (C21). 484556
- radiation injuries**
Investigation of radiation injury to hemopoietic cells of man using the method of organ cultures of bone marrow in vitro. (C11). 484472
- Methodological approaches to ascertaining, by bone-marrow cellularity, the severity of hemopoietic radiation damage in man. (C15). 466179
- radioprotective substances**
Effect of 2- amino-5,6-dehydro-4H-1,3-thiazine on radiation response of the hemopoietic organs. (C14). 484501
- radiosensitivity**
Differences in radiosensitivity of man bone marrow cells under their irradiation in extirpated bone and cell suspension. (C11). 479755
- sister chromatid exchanges**
In vivo sister-chromatid exchange: a sensitive measure of DNA damage. (C14). 484524
- survival curves**
New derivation, from split-dose data, of the complete survival curve for clonogenic normal cells in vivo. (C14; X rays; gastric and jejunal crypt cells; spermatocytes; bone marrow cells (FU); mice). [Data] 490956
- transplants**
Defective transient endogenous spleen colony formation in S1/S1-sup d/ mice. (C14; Gamma radiation). 487231
- Effects of dose rate on hematopoietic stem cells: preliminary results. (C14; Whole-body ^{60}Co γ irradiation of mice). 472944
- BONE SEEKERS:**
- biological localization**
Autoradiography of technetium-labelled diphosphonate in rat bone. (C31). 491075
- BONE TISSUES:**
- activation analysis**
In vivo analysis of bone calcium by local neutron activation of the hand: results in normal and osteoporotic subjects. (B11, C62, C15). [Data] 472368
- Variation in the bone calcium concentration as a function of age and sex, studied by local neutron activation in vivo. (B11). 483987
- biological radiation effects**
Age-related radiosensitivity of systems restoring calcium homeostasis. (C14). 466137
- Analysis of thick source alpha particle spectrum from radium and its daughters in bone. (C21; ^{226}Ra , ^{214}Po). 479952
- Molecular metabolic mechanisms of bone radiation damage and its modification. (C14). 465993
- Radiochemical determination of ^{226}Ra in bone: a preliminary analysis of results. (C21, B11). [Data] 479957
- Study of irradiated bone: Part III. /sup 99m/Tc pyrophosphate autoradiographic changes. (C14, C62, C21; X rays; rabbits). 472963
- biological regeneration**
Study of irradiated bone: Part III. /sup 99m/Tc pyrophosphate autoradiographic changes. (C14, C62, C21; X rays; rabbits). 472963
- blood circulation**
The extraction from the blood of phosphate compounds by canine bone. (C45, C21). 491104
- calcium**
In vivo determination of minerals in bones by measuring gamma absorption. (B11). 475888
- chemical analysis**
Analyses of quality control samples at EML and contractor laboratories during 1978. (B11, C22, B32, B33). [Data] 475878
- compiled data**
Radiochemical determination of ^{226}Ra in bone: a preliminary analysis of results. (C21, B11). [Data] 479957
- density**
Compton scatter dosimetry in cancellous bone. (C61). [Data] 473357
- electron dosimetry**
Dose distribution near an interface due to anisotropic electron emission. (D15). [Data] 476849
- grafts**
Quantitative radionuclide imaging for early determination of fate of mandibular bone grafts. (C62, C21; /sup 99m/Tc-I-hydroxy-ethane-I-diphosphonate (HEDP); Beagles). 473487
- neutron activation analysis**
Determination of calcium and phosphorus in small bone biopsies by activation with cyclotron produced neutrons. (B11). [Data] 462650
- Development of apparatus to measure calcium changes in the forearm and spine by neutron activation analysis using californium-252. (C61, B11). [Data] 473392
- neutron diffraction**
Neutron diffraction studies of lumbar vertebrae. (C45, A13). 479992
- neutron dosimetry**
Fast neutron dosimetry of a bone-tissue interface. (C55). [Data] 463416
- osteosarcomas**
Geometry of flattened cells on endosteal surfaces of human bone: implications for the induction of osteosarcoma and the shape of the dose-response relationship. (C21; ^{226}Ra , ^{239}Pu). 479949
- pathological changes**
Ghost infantile vertebrae and hemipelves within adult skeleton from thorotrast administration in childhood. (C21, C60). 469799
- radiation doses**
Bioassay at uranium mills: a discussion of Nuclear Regulatory Commission regulatory guide 8.22. (C54, C21). 466353
- Dose to tissue inclusions from photon emitters in bone. (C21, C62; /sup 99m/Tc). [Data] 491049
- In vivo measurements of bone-seeking radionuclides. Progress report, September 1, 1977 - February 28, 1979. (C21, C62). [Data] 487283
- radioactivity**
Relative ^{238}Pu content of bone and bone marrow. (C21; Dogs). [Data] 473071
- radiometric analysis**
Determination of ^{241}Am in reindeer bone. (B11, C21, C22; Results and radiochemical methods are discussed). 472388
- radionuclide kinetics**
Blood flow and tracer uptake in normal and abnormal canine bone: comparisons with Sr-85 microspheres, Kr-81m, and Tc-99m MDP. (C62, C21, C31). 487709
- Disposition of $^{238}\text{Pu}(\text{NO}_3)_3$ following inhalation by beagle dogs. (C21). [Data] 473049
- Quantitative radionuclide imaging for early determination of fate of mandibular bone grafts. (C62, C21; /sup 99m/Tc-I-hydroxy-ethane-I-diphosphonate (HEDP); Beagles). 473487
- Simple model for anatomic bone scanning studies. (C62, C15). 470116
- Zinc absorption and metabolism in animals. (C21; Rats, Calves, ^{65}Zn). 473057
- radiopharmaceuticals**
Aspects of sup(99m)Tc bonding of sup(99m)Tc-EHDP. (C62). 473470
- Autoradiography of technetium-labelled diphosphonate in rat bone. (C31). 491075
- scintiscanning**
Clinical experience with sup(113m)In-EDTMP for bone scintigraphy. (C62). 476786
- In vivo measurements of bone-seeking radionuclides. Progress report, September 1, 1977 - February 28, 1979. (C21, C62). [Data] 487283
- Nuclear medicine, 1978. (C62, C61). 473404
- Radioisotope investigation of bone regenerate in case of distraction osteosynthesis. (C62). 482439
- BONES:**
See SKELETON
- BONN SYNCHROTRON:**
- polarized beams**
Acceleration of polarized electrons in the 2,5 GeV synchrotron at Bonn. (E16). 491576
- BONNER SPHERE DETECTORS:**
- lithium fluorides**
Neutron dosimetry with using thermoluminescent LiF detectors in conjunction with spherical moderators. (E41). 466758
- BONNER SPHERE SPECTROMETERS:**
- fission spectra**
Combined Bonner sphere and threshold fission detector spectrometer. (E41). 480762
- specifications**
Neutron spectrometer using moderating spheres with passive detectors. (E41). 495118
- BOOKKEEPING:**
See ACCOUNTING
- BOOSTERS (PARTICLE):**
See PARTICLE BOOSTERS
- BOOTSTRAP MODEL:**
- baryons**
Models of the baryon and the planar bootstrap condition. (A21). 475616
- coupling**
Self-consistent model calculations of the ordered S-matrix and the cylinder correction. (A21). 468106
- gluons**
Bootstrapping quarks and gluons. (A21). 493049
- multi-peripheral model**
Low mass diffractive dissociation in a simple t-dependent dual bootstrap model. (A21). 468029
- propagator**
Self-consistent model calculations of the ordered S-matrix and the cylinder correction. (A21). 468106
- quarks**
Bootstrapping quarks and gluons. (A21). 493049
- regge cuts**
Solutions of simple dual bootstrap models satisfying the Lee-Veneziano relation and the smallness of cut discontinuities. (A21). 486026
- topology**
Models of the baryon and the planar bootstrap condition. (A21). 475616

- unitarity
Topological colour and disc mating unitarity as the source of zero triality. (A21). 478422
- BOR-60 REACTOR:**
- boiling detection
Experiments in sodium boiling on the BOR-60 reactor. (E36). 488172
- Sodium boiling experiments at the BOR-60 reactor. (E36). 495034
- monitoring
The BOR-60 sodium boiling experiment. (E35). 488113
- reactor noise
The BOR-60 sodium boiling experiment. (E35). 488113
- BORANES:**
- chemical reaction yield
Hydrolysis of octahydrotriborate in cold acidic methanol-water solutions. Preparation of $B_3H_7OH_2$ and $B_3H_7OH^-$. (B12). 465329
- chemical reactions
AB INITIO calculation of approximate potential surface of the shortest way of the $BH + H_2 \rightarrow BH_3$ reaction. (B12). 490331
- Hydrolysis of octahydrotriborate in cold acidic methanol-water solutions. Preparation of $B_3H_7OH_2$ and $B_3H_7OH^-$. (B12). 465329
- Interaction of V_2O_5 with $NaBH_4(KBH_4)$ at heating. (B12). 475915
- Redistribution of electron density in the $BH + H_2 \rightarrow$ reaction according to AB INITIO calculation data. (B12). 490333
- chemistry
Studies of boron hydrides: new heteroboranes. (B12). 493562
- crystal structure
Chloro-, methyl-, and (tetrahydroborato)tris(hexamethyldisilyl)amido)thorium(IV) and -uranium(IV). Crystal structure of (tetrahydroborato)tris(hexamethyldisilyl)amido)thorium(IV). (B13). 486726
- infrared spectra
Vibrational spectra and force-constants of some phosphine-boranes. (B12). 465318
- pyrolysis
Studies of boron hydrides: new heteroboranes. (B12). 493562
- raman spectra
Vibrational spectra and force-constants of some phosphine-boranes. (B12). 465318
- BORATES:**
- (Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- absorption spectra
Absorption spectra of rare-earth metaborate monocrystals. (B12; metaborates of Pr, Nd, Sm). 475983
- bleaching
Laser and thermal bleaching of colour centres in sodium borate glasses. (B23). 462923
- crystal growth
Preparation of crystals of double borates of trivalent elements. (B12). 468793
- crystal structure
Laser-induced fluorescence line narrowing of Eu^{3+} in lithium borate glass. (A12, B24). 467213
- crystallization
Neodymium incorporation into YAl-borate crystals in preparation from solutions in molten potassium trimolybdate. (B12). 468792
- formation heat
Calorimetric investigation of glass-like and crystal sodium borates. (B12). 486662
- iron ions
Zero-field splitting of the ground state s ion in calcite type borates. (A13). 481083
- magnetic properties
Magnetic ordering in $Fe_2B_3O_{11}$ ferroelectric boracide. (A13). 464186
- moessbauer effect
Static critical behaviour of antiferromagnet with two pairs of magnetic sublattices. (A13). 477898
- order parameters
Static critical behaviour of antiferromagnet with two pairs of magnetic sublattices. (A13). 477898
- radioactive wastes
Method to dry boric acid and/or borate-containing solution concentrates. (E51). 488326
- solubility
(NH_4) $_2$ B $_4$ O $_7$ - NH_4X (X-Cl, CNS)- H_2O system at 25 deg C. (B12). 493695
- [Data]
Solubility and liquid phase properties of $Me_2BL_4O_7$ - $MeNO_3$ (Me- Li , Na)- H_2O system at 25 deg C. (B12, B15). [Data] 493711
- The system of NaB_3O_6 -NaGTA(GTA-Cl, Br, I)- H_2O at 25 deg C. (B12). 476077
- spin echo
Nonlinear phenomena in nuclear spin echo in $FeBO_3$. (A13). 477932
- thermoluminescence
Capture centres in yttrium-aluminium borate crystals. (A13). 474886
- Gamma ray induced sensitization and residual thermoluminescence in common TLD phosphors. (E41). 461840
- vapor pressure
Mass-spectrometric study of thermodynamic properties of $2NaBO_2 \cdot B_2O_3$ system melts. (B12). 486663
- BORHOLES:**
- closures
Borehole Plugging Program. Plugging of ERDA No. 10 drill hole. (E52). [Data] 495216
- Borehole Plugging Program. (E52). 474229
- Status of borehole plugging and shaft sealing for geologic isolation of radioactive waste. (E52). 474233
- depth
Measuring depth in boreholes. (D22). 473592
- fractures
Geophysical borehole measurements. (E52). [Data] 492267
- gamma logging
Cryostat for borehole sonde employing semiconductor detector. (E41). 482866
- A nuclear geophysical borehole logging system. (B31; Gamma logging, neutron-gamma logging and neutron-neutron logging). 462963
- Spectral gamma-ray logging III: formation and thin bed effects. (D22). 487808
- Spectral gamma-ray logging II: borehole correction factors. (D22). 487807
- neutron logging
Cryostat for borehole sonde employing semiconductor detector. (E41). 482866
- neutron-gamma logging
Measurement of salinity of fluids in earth formations by comparison of inelastic and capture gamma ray spectra. (B31, D22). 490815
- Well logging method and apparatus. (D22). 480309
- permeability
Permeability of granular beds emplaced in vertical drill holes. (E13). 491532
- radiation monitoring
Borehole monitoring of radioactive waste trenches. (E52, C54, B31). 474249
- radioactivity logging
Portable x-ray fluorescence analyzer for bore hole and powder measurements. (E41, D22). 466802
- shielding
Radiation shields. (E22). 491747
- BORIC ACID:**
- aqueous solutions
Method and device for the continuous preparation of solutions. (B12). 486665
- chemical reaction yield
Hydrolysis of octahydrotriborate in cold acidic methanol-water solutions. Preparation of $B_3H_7OH_2$ and $B_3H_7OH^-$. (B12). 465329
- ion exchange
Development of boron control of WWER type reactors. (E24). 463609
- radiometric analysis
Reversible storage of boron acid. (E24, E32, B11). 461649
- BORIDES:**
- See also more specific entries as listed in the INIS Thesaurus.
- magnetic susceptibility
Magnetic properties of $Cesub(x)Eusub(1-x)Bsub(6)$ solid solutions. (B23, B23). 46238
- Magnetic susceptibility of $Lasub(x)Smsub(1-x)Bsub(6)$ solid solutions. (B22). 493912
- mechanical properties
Structure and properties of transition metal-metalloid glasses based on refractory metals. (B23, B24, B22). 472698
- neutron absorbers
Absorbant materials. (B24, B25). [Data] 472724
- solid solutions
Study on the $Smsub(x)Lasub(1-x)Bsub(6)$ solid solution system. (B22, B23). 493911
- ternary alloy systems
Ternary metal borides [La, Ce, Pr, Nd, Sm] Os_2B_4 and [Y, La, Ce, Pr, Nd, Sm, Gd, Tb] IrB_4 with $NdCo_5B_4$ -type structure. (B22). 479443
- BORN APPROXIMATION:**
- See also DWBA
- electron detachment
Differential cross sections for the production of H atoms in collisional electron detachment of H^- ions on He, H, and H_2 targets. (A12). 464032
- Effect of target distortion on electron detachment differential cross section for $H^- + He$ and $H^- + H$ collisions. (A12). 464033
- integrals
The calculation of certain second Born integrals. (A12). 483177
- BORN CROSS SECTIONS:**
- See BORN APPROXIMATION
- BORN-GREEN-YVON EQUATION:**
- See BOLTZMANN EQUATION
- BORN-INFELD THEORY:**
- scalar fields
On the problem of metric in the scalar nonlinear field theory. (A11). 492422
- space-time
On the problem of metric in the scalar nonlinear field theory. (A11). 492422
- BOROHYDRIDES:**
- (Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- chemical preparation
Synthesis and properties of zinc borohydride and its some derivatives. (B12). 493664
- Synthesis and properties of borohydrides of the cerium group rare earths. (B12; La, Ce, Pr, Nd, Sm). 476026
- Synthesis and some physicochemical properties of rare earth borohydrides. (B12). 479000
- chemical reactions
Chemistry of trivalent uranium. 2. Synthesis of UCl_3 (18-crown-6) and $U(BH_4)_3$ (18-crown-6). (B13). 468917
- Interaction of alkali metal borohydrides with transition metal

- chlorides. (B12). 476017
- Properties and reactions of uranium(IV) tetrahydroborate by ion cyclotron mass spectrometry. (B13). 486691
- The systems of $\text{Dy}(\text{BH}_4)_3$ -tetrahydrofuran and $\text{Dy}(\text{BH}_4)_3$ -LiBH₄-tetrahydrofuran. (B12). 476027
- Transition metal borohydrides the synthesis of complex compounds. (B12). 476016
- formation heat**
- Thermochemical investigations of complexes of $\text{Al}(\text{BH}_4)_3$ -xL type where $\text{L} = \text{NH}_2\text{CH}_3$, $\text{NH}(\text{CH}_3)_2$, $\text{N}(\text{CH}_3)_3$. (B12). 486620
- pyrolysis**
- Amine complexes of chromium (3) and cobalt (3) salt with BH_4^- and B_3H_8^- anions in second sphere and their thermal stability. (B12). 476074
- solubility**
- Synthesis and properties of borohydrides of the cerium group rare earths. (B12; La, Ce, Pr, Nd, Sm). 476026
- System of $\text{Cs}_2\text{B}_{12}\text{H}_{12}$ - Cs_2SO_4 - H_2O at 25 deg C. (B12). 475981
- System of $\text{Cs}_2\text{B}_{12}\text{H}_{12}$ - CsI - H_2O at 25 deg C. (B12). 475980
- The systems of $\text{Dy}(\text{BH}_4)_3$ -tetrahydrofuran and $\text{Dy}(\text{BH}_4)_3$ -LiBH₄-tetrahydrofuran. (B12). 476027
- structural chemical analysis**
- Closo-dodecaborates of alkaline earth metals. (B12). 476001
- thermodynamic properties**
- Properties and reactions of uranium(IV) tetrahydroborate by ion cyclotron mass spectrometry. (B13). 486691
- BORON:**
- absorption spectroscopy**
- Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- activation analysis**
- Contribution of nuclear analysis methods to the certification of BCR reference materials for non-metals in non-ferrous metals. (B11). 483993
- Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504
- aluminium base alloys**
- The determination of boron in ferrous and non-ferrous alloys by neutron transmission. (D22, B11, E42). [Data] 473590
- autoradiography**
- The use of solid-state nuclear track detection for the study of boron and fissile nuclide distributions in steel samples. (B11). 472367
- boron carbides**
- Volumetric determination of boron in boron carbide. (B11). 493516
- chemical vapor deposition**
- Large-area boron and carbon scatterers and filters. (B24). 479528
- composite materials**
- High-temperature structural stability of aluminium-boron and aluminium-silicon carbide composite materials. (B22). 493989
- Investigation into initial stages of boron filaments and aluminium interaction. (B22). 460746
- crystal growth**
- Some peculiarities of growing of β -boron crystals. (B12, B11). 468739
- diffusion**
- Study of the diffusion of the boron in high temperature proton irradiated silicon. (B25). [Data] 472750
- diffusion coatings**
- The behaviour of diffusion layers containing boron and chromium in aqueous solutions of acids. (B22). 462858
- electric conductivity**
- Field effect studies of the electron transport in β -rhombohedral boron. (A13). 485640
- electronic structure**
- Atomic coreless Hartree-Fock pseudopotential for atoms Li through Ne. (A17). [Data] 464736
- emission spectroscopy**
- Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
- Progress report, July 1975 - September 1977. (F41, B11). 474371
- energy levels**
- Calculations of atomic electron affinities. (A12). 471323
- fibres**
- Mechanical properties and surface defects of boron fibres prepared in a closed CVD system. (B22). [Data] 462861
- integral cross sections**
- Calculation of burnable cells-Hammer versus Leopard. (E32). 461697
- iron base alloys**
- The determination of boron in ferrous and non-ferrous alloys by neutron transmission. (D22, B11, E42). [Data] 473590
- magnetic susceptibility**
- Temperature dependence of specific magnetic susceptibility of α -rhombohedral boron. (B23). 476368
- mass spectroscopy**
- Boron concentration and impurity-to-band activation energy in diamond. (B12). 475928
- microanalysis**
- Control of the thin layer composition by the method of reaction secondary ion emission. (B11). 486507
- neutron absorbers**
- Absorbant materials. (B24, B25). [Data] 472724
- neutron activation analysis**
- Nondestructive nuclear method for boron analysis in plant samples. (B11). [Data] 493482
- nitridation**
- A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- nuclear reaction analysis**
- Application of the thermal (n, γ) reaction to elemental analysis. (B11). 468630
- The role of nuclear methods in the study of surface compositions. Their use in the Community Bureau of Reference (BCR). Project on 'RMs for non-metals in non-ferrous metals'. (B11). 490307
- oxidation**
- A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- quantitative chemical analysis**
- Determination of small amounts of boron by radiation decomposition of chloroacetic acid solution. (B11). 493543
- The determination of boron and carbon in reactor grade boron carbide. (B11). 472336
- Determination of boron content of glasses by neutron absorption. (B11). 472396
- Determination of low-boron concentrations in various matrices with a neutron source. (B11). [Data] 465251
- Volumetric determination of boron in boron carbide. (B11). 493516
- quantity ratio**
- On independent determination of spatial distribution of boron and lithium in minerals, rocks and ores. (B11). 465248
- Preliminary mini experiments on leaching of glass. A report of the situation 1979-03-15. (E52, B24). [Data] 492252
- reviews**
- Boron and boron-based semiconductors. (B22). [Data] 465596
- silicates**
- Rapid determination of boron traces in silicate materials. (B11). 486501
- soluble poisons**
- Boron as neutron poison in power reactors - its estimation. (B11). 468647
- spectrophotometry**
- Rapid determination of boron traces in silicate materials. (B11). 486501
- volatility**
- Volatilization from borosilicate glass melts of simulated Savannah River Plant waste. (E51). 471063
- BORON ADDITIONS:**
- See also ALLOY-EH437B; ALLOY-IN-100; ALLOY-KHN67VMTYU; ASTROLOY; NIMONIC PE16
- ductility**
- Boron steels containing Al and Ti. (B21). [Data] 472617
- BORON ALLOYS:**
- crystallization**
- Elinvar-type behavior in the alloy $\text{Fe}_{70}\text{Mo}_{30}$. (B22). 465663
- magnetic properties**
- Effects of Mo on the magnetic properties of amorphous $(\text{Fe}/\text{sub } x/\text{Mo}/\text{sub } 1-x)/_{75}\text{P}_{15}\text{B}_4\text{Al}_3$. (B22). 479379
- magnetic susceptibility**
- On some low-temperature properties of $(\text{La,Ce})\text{B}_6$ alloys. (A13). [Data] 471439
- phase diagrams**
- Physicochemical investigation of B_2X_3 - TiX systems ($\text{X} = \text{S, Se}$). (B12). 475987
- superconductivity**
- Magnetic impurities in amorphous superconductors: $T_{\text{sub}}(\text{Kondo}) > T_{\text{sub}}(\text{c})$. (B22). [Data] 490575
- Magnetic ordering of $\text{Gd}/\text{sub } x/\text{Er}/\text{sub } 1-x/\text{Rh}_4\text{B}_4$ near the superconducting region. (B22, A17). 469213
- BORON BROMIDES:**
- chemical reactions**
- Equilibrium composition of the gaseous phase in the B-P-Cl-Br-H system. (B12). 476025
- BORON CARBIDES:**
- chemical analysis**
- Water and hydrogen content in oxide LWR nuclear fuels and in boron carbide. (B11). 483959
- comparative evaluations**
- Hot pressing of EuB_6 . (B23, E36). 490662
- desorption**
- Desorption spectrometric results of the adsorption of deuterium on pyrocarbon, silicon and boron carbide surfaces. (B23). [Data] 490655
- doped materials**
- Sintering kinetics of pure and doped boron carbide. (B23). 494072
- elasticity**
- Elastic modulus and fracture of boron carbide. (B23). 490663
- electron microscopy**
- On technique for electron microscopy of nonmetallic very hard materials. (B23). 494080
- fabrication**
- Performance predictions and manufacturing concerns of burnable poison rods. (B25, B22, E24). 469418
- hot pressing**
- Hot-press fabrication and joining of boron carbide. (B23). 472702
- neutron absorbers**
- Absorbant materials. (B24, B25). [Data] 472724
- neutron transport**
- Calculation of neutron transmission through boral shielding material. (A31, A32; 0.025 to 0.125 eV). 460251
- permeability**
- Hydrogen retention and release in first-wall coatings for tokamaks. (A14). 485703
- photon activation analysis**
- The use of photon activation analysis for the determination of Sm, Eu, Gd and Dy in boron carbide. (B11). [Data] 483955
- physical radiation effects**
- BICM-2 instrumented neutron absorber experiment. (E24, B25). 480611

- Helium bubbles in irradiated boron carbide. (B25, E22; Neutron irradiation between 540° and 2000°C). 490726
 Performance predictions and manufacturing concerns of burnable poison rods. (B25, B22, E24). 469418
quantitative chemical analysis
 The determination of boron and carbon in reactor grade boron carbide. (B11). 472336
sintering
 Sintering kinetics of pure and doped boron carbide. (B23). 494072
solid solutions
 On the structure of paramagnetic centers in B-C system. (B12). 493738
- BORON COMPLEXES:**
chemical reactions
 Chiral trialkylborane reducing agents. Preparation of 1-deutero primary alcohols of high enantiomeric purity. (B12). [Data] 486637
fluorescence
 Fluorescence of complexes of hydroxyflavones with boric acid. (B12). 493725
polarography
 Oscillo-polarographic determination of boron based on its complex formation with polyphenol. (B11). 472342
quantitative chemical analysis
 Fluorimetric determination of nanogramme amounts of boron. (B11). 490321
- BORON COMPOUNDS:**
 See also more specific entries as listed in the INIS Thesaurus.
chemical bonds
 Energy of forbidden zone for inorganic compounds of the AB type. (B12; compounds of Cs, Sr, B, Be). 493563
electric conductivity
 Viscosity and electrical conductivity of glass melts as a function of waste composition. (E51; Effect of iron and aluminum content of viscosity and electrical conductivity). 466882
leaching
 Long-term leach rates of glasses containing actual waste. (E52). 466905
luminescence
 Luminescence spectroscopy of boron minerals. (A12, A13). 492529
minerals
 Luminescence spectroscopy of boron minerals. (A12, A13). 492529
nuclear reaction analysis
 Contactless determination of the concentration of dissolved substances in liquids means of (n, α - and (n, γ)-reactions. (A13). 481096
oscillation modes
 A normal coordinate analysis of borazine and its deuterated derivatives - revision in assignments of fundamental modes of vibration. (B12). [Data] 481664
oxidation
 On reducing power of dioxane solvate of NaB₂H₄ in aqueous medium. (B12). 490359
reviews
 Boron and boron-based semiconductors. (B22). [Data] 465596
solubility
 The systems of M₂B₁₂H₁₂-MCl-H₂O (M = K⁺, Rb⁺, Cs⁺) at 25 deg C. (B12). 475979
viscosity
 Viscosity and electrical conductivity of glass melts as a function of waste composition. (E51; Effect of iron and aluminum content of viscosity and electrical conductivity). 466882
 Viscosity of glasses containing simulated Savannah River Plant waste. (E51). 466880
- BORON FLUORIDES:**
crystallography
 Peculiarities of crystallochemistry of fluorine and oxygen in hydrated fluorides. (B12; BF₃·xH₂O, InF₃·xH₂O, ZrF₄·xH₂O, HfF₄·xH₂O, UF₆·xH₂O). 493557
photolysis
 Electron spin resonance spectra of the ¹⁴NF₃⁺ and ¹⁵NF₃⁺ radical cations. (B14, B12; Gamma radiation). 472513
radiolysis
 Electron spin resonance spectra of the ¹⁴NF₃⁺ and ¹⁵NF₃⁺ radical cations. (B14, B12; Gamma radiation). 472513
- BORON HYDRIDES:**
 See BORANES
- BORON IONS:**
collisions
 K-shell ionization of elements ²⁹Cu to ³⁷Rb for 0.4 - 3.8-MeV/amu ¹⁰B-ion bombardment. (A12). 474624
diffusion
 Long-range enhancement of boron diffusivity induced by diffusion of a high surface concentration of phosphorus. (A13). 492662
diffusion length
 Diffusion length evaluation of boron-implanted silicon using the SEM-EBIC/Schottky diode technique. (A13). 488997
electron-ion collisions
 Electron-impact excitation of the beryllium isoelectronic sequence. (A12). 488807
energy levels
 Simple extended STO basis sets. helium. (A12). 464064
ion implantation
 Calculation of α -particle ranges in multicomponent substances. (A13, F51; B₂₀Fe₈₀; B₁₇Fe₈₃; Ni₁₃Fe₈₇Cr₁₄P₁₂B₆; Fe₄₀Ni₄₀B₂₀; Fe₈₀P₁₀B₁₀; Si₂₁₂B₁₀₉Al₁₀Na₂₄K₂₀O₆₂₃). 464133
 Capacitance and doping profiles of ion-implanted, buried-channel MOSFETs. (B25). [Data] 460816
 Diffusion length evaluation of boron-implanted silicon using the SEM-EBIC/Schottky diode technique. (A13). 488997
 Ion implantation and depletion in germanium at low temperatures. (B25). 472745
 Ionization assisted annealing of boron implanted silicon. (A13). 471542
[Data]
 Location of self-interstitial atoms in boron-implanted silicon by means of Rutherford backscattering of channelled ions. (A13). 492621
 Model of 1/f noise in ion implanted resistors as a function of the resistance, determined by a reverse bias voltage. (A13, B25). 481070
 Rapid identification of faulted loops in ion-implanted silicon. (A13). 472779
ion-atom collisions
 Charge-transfer cross sections for collisions of Li³⁺, Be⁴⁺, B⁵⁺, and C⁶⁺ ions with atomic hydrogen. (A12). 477814
 Electron capture by slow multicharged ions in atomic and molecular hydrogen. (A12). 463970
mos transistors
 Formation and annealing of radiation damage in boron ion implanted MOS structures. (A13). 474830
stopping power
 A method for measuring stopping powers of channelled ions: boron in Si. (A13). [Data] 467433
- BORON ISOTOPES:**
 See also BORON 10; BORON 11; BORON 12
nucleosynthesis
 Nucleosynthesis of Li, Be, and B: contributions from the p + ¹⁰O reaction at 50 - 90 MeV. (A34). 475833
- BORON NITRIDES:**
chemical preparation
 Hexagonal boron nitride. Pt. 2. (B23). 460789
 Thermodynamic analysis of the B-O-C-N system. (B12). 465345
cold pressing
 Boron nitride insulating material. (B23; Patent). 472699
crystal growth
 A positive tetrahedron is an active form for growth of cubic boron nitrides. (B12). 468735
crystal-phase transformations
 Polymorphic transformations of wurtzite-like boron nitride at high pressure and temperatures. (B12). 479018
 Stacking faults in the structure of wurtzite modification of boron nitride and their role in the process of phase transformation of the wurtzite \rightarrow sphalerite type. (B23). 494070
 Structural transformations in boron nitride under high pressure and temperature. (B23). 494068
electron microscopy
 On technique for electron microscopy of nonmetallic very hard materials. (B23). 494080
electronic structure
 On the electronic structure of hexagonal boron nitride. (B23). 476370
hexagonal lattices
 Hexagonal boron nitride. Pt. 1. (B23). 460788
microhardness
 Certain properties of polycrystalline cubic BN. (B23). 484289
neutron absorbers
 Absorbant materials. (B24, B25). [Data] 472724
shielding
 Method for determination of silicon in plant materials by neutron activation analysis. (B11). 483974
- BORON OXIDES:**
crystal structure
 Crystal structure of CaOx4B₂O₃x2H₂O = CaB₂O₁₁(OH)₄. (B12). 468893
electron spin resonance
 Atomic Center interactions in BaO; Al₂O₃; B₂O₃ glasses containing silver. (A13). [Data] 481144
glass
 Investigation of lithium boron silicate glasses by the method of high temperature IR spectroscopy. (B12). 479047
silver ions
 Atomic Center interactions in BaO; Al₂O₃; B₂O₃ glasses containing silver. (A13). [Data] 481144
spectroscopy
 Spectral determination of boron in small weighted amounts of minerals and rocks. (B11). 493525
vapor pressure
 Mass-spectrometric study of thermodynamic properties of Na₂O-B₂O₃-GeO₂ system melts. (B12). 486666
 Mass-spectrometric study of thermodynamic properties of 2NaBO₂-B₂O₃ system melts. (B12). 486663
- BORON SILICATES:**
 See also TOURMALINE
- BORON 10:**
cosmic radiation
 The cosmic ray boron and carbon isotopic composition measured in nuclear emulsions. (A15). [Data] 492865
energy levels
 Four-nucleon pickup from ¹⁴N. (A34). 486433
hypernuclei
 Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
laser isotope separation
 Isotope separation by photomigration. (B12). 472468
nucleosynthesis
 Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
radiometric analysis
 Reversible storage of boron acid. (E24, E32, B11). 461649

| | |
|---|--------|
| resonance | |
| Resonance strength of the 1175 keV resonance in ${}^6\text{Li}(\alpha,\gamma){}^{10}\text{B}$. (A34). | 472299 |
| shell models | |
| Interpretive model for ${}^{10}\text{B}$. (A33). | 472171 |
| BORON 10 REACTIONS: | |
| alpha-transfer reactions | |
| New isotope ${}^{242}\text{Bk}$. (A34). | 486483 |
| compound-nucleus reactions | |
| Evidence for a positive parity decoupled band in ${}^{79}\text{Rb}$. (A34). | 490139 |
| Identification of ${}^{148}\text{Ho}$ and ${}^{149}\text{Ho}$. (A34). [Data] | 481603 |
| New isotope ${}^{242}\text{Bk}$. (A34). | 486483 |
| elastic scattering | |
| Nuclear absorption effects in the elastic scattering of ${}^{10}\text{B}$ and ${}^{11}\text{B}$ by ${}^{27}\text{Al}$, ${}^{28}\text{Si}$, and ${}^{30}\text{Si}$. (A34). | 486435 |
| heavy ion fusion reactions | |
| Collective properties of the odd-mass Cs nuclei. II. /sup | 468487 |
| Collective properties of the odd-mass Cs nuclei. I. /sup | 468486 |
| inelastic scattering | |
| Nuclear absorption effects in the elastic scattering of ${}^{10}\text{B}$ and ${}^{11}\text{B}$ by ${}^{27}\text{Al}$, ${}^{28}\text{Si}$, and ${}^{30}\text{Si}$. (A34). | 486435 |
| one-nucleon transfer reactions | |
| 1 = 1 transfer reaction ${}^{28}\text{Si}({}^{10}\text{B},{}^9\text{Be}){}^{29}\text{P}/\text{sub g.s.}/(1/2^+)$. (A34). | 468565 |
| BORON 10 TARGET: | |
| deuteron reactions | |
| Experimental technique for study in kinematically complete experiments on three-particle reactions using the two-processor complex on the basis of the M-400 computer. (A34, F51). | 493368 |
| neutron reactions | |
| The ${}^{10}\text{B}(n,\alpha\gamma){}^7\text{Li}$ cross-section between 0.1 and 2.2 MeV. (A34). [Data] | 472311 |
| Angular distributions of the ${}^6\text{Li}(n,t){}^4\text{He}$ and ${}^{10}\text{B}(n,\alpha){}^7\text{Li}$ reactions at 2 and 24 keV. (A34). | 478773 |
| Measurement of the ${}^{10}\text{B}(n,\alpha\gamma){}^7\text{Li}$ cross section in the keV energy region. (A34; 5 to 700 keV, J, π). | 478766 |
| Neutron flux monitoring and data analysis for neutron standard reaction cross sections. (D15, E41, A34; 5 to 800 KeV). | 480303 |
| Neutron total cross-section measurements of ${}^9\text{Be}$, ${}^{10}\text{B}$, and ${}^{12}\text{C}$ from 1.0 to 14 MeV using the ${}^9\text{Be}(d,n){}^{10}\text{B}$ reaction as a white neutron source. (A34, A31; 10 to 14 MeV). [Data] | 490120 |
| Total neutron cross section of boron-10 between 90 and 420 keV. (A34). [Data] | 472226 |
| nitrogen 14 reactions | |
| Fusion cross section measurements for the reactions ${}^{14}\text{N} + {}^{10}\text{B}$ and ${}^{16}\text{O} + {}^{16}\text{O}$. (A34; 2.9 to 12 MeV, yield, S factors, evaporation residues). | 468579 |
| oxygen 16 reactions | |
| High-spin states in ${}^{24}\text{Mg}$ and upper limits for particle spectroscopy of high spins by heavy-ion compound reactions. (A34). | 468562 |
| pion minus reactions | |
| Single-neutron emission induced by stopped π^- in 1p shell nuclei. (A34). | 483834 |
| proton reactions | |
| Energy dependence of pion production by protons on nuclei. (A34). | 490219 |
| Experimental and theoretical studies of positive pion production on ${}^{10}\text{B}$ and ${}^{40}\text{Ca}$ by 163-186 MeV protons. (A34). | 483885 |
| BORON 11: | |
| alpha decay | |
| P-odd asymmetry of alpha particle emission in the decay of the ${}^{11}\text{B}$ polarized nucleus. (A33; Neutron reactions, boron 10 target thermal neutrons). | 493258 |
| cosmic radiation | |
| The cosmic ray boron and carbon isotopic composition measured in nuclear emulsions. (A15). [Data] | 492865 |
| energy | |
| Range and energy functions of interest in neutron dosimetry. (A31). | 481445 |
| energy levels | |
| Measurement of the ${}^{10}\text{B}(n,\alpha\gamma){}^7\text{Li}$ cross section in the keV energy region. (A34; 5 to 700 keV, J, π). | 478766 |
| Neutron total cross-section measurements of ${}^9\text{Be}$, ${}^{10}\text{B}$, and ${}^{12}\text{C}$ from 1.0 to 14 MeV using the ${}^9\text{Be}(d,n){}^{10}\text{B}$ reaction as a white neutron source. (A34, A31; 10 to 14 MeV). | 490120 |
| energy-level transitions | |
| Mechanism of the photoproton reaction on a ${}^{12}\text{C}$ nucleus. (A34). | 493460 |
| excitation | |
| Isotope separation by photomigration. (B12). | 472468 |
| hypernuclei | |
| Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). | 464771 |
| nucleosynthesis | |
| Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). | 472292 |
| range | |
| Range and energy functions of interest in neutron dosimetry. (A31). | 481445 |
| BORON 11 REACTIONS: | |
| alpha-transfer reactions | |
| A DWBA analysis of heavy ion α -transfer reactions on ${}^{16}\text{O}$. (A34). | 460326 |
| Heavy ion induced α -transfer on targets of mass 12 to 15. (A34). | 462629 |
| New isotope ${}^{242}\text{Bk}$. (A34). | |
| angular distribution | |
| The transfer amplitude and angular distributions in heavy-ion reactions. (A34). | 475812 |
| compound-nucleus reactions | |
| Backbending in ${}^{22}\text{Ne}$. (A34). | 475849 |
| In-beam gamma-ray spectroscopy of ${}^{74}\text{Se}$ following the ${}^{60}\text{Ni}({}^{16}\text{O},2p)$, ${}^{64}\text{Ni}({}^{12}\text{C},2n)$ and ${}^{63}\text{Cu}({}^{11}\text{B},2n)$ reactions. (A34). | 478760 |
| New isotope ${}^{242}\text{Bk}$. (A34). | 486483 |
| Resonances in the ${}^{11}\text{B} + {}^{12}\text{C}$ system. (A34). | 486378 |
| elastic scattering | |
| Nuclear absorption effects in the elastic scattering of ${}^{10}\text{B}$ and ${}^{11}\text{B}$ by ${}^{27}\text{Al}$, ${}^{28}\text{Si}$, and ${}^{30}\text{Si}$. (A34). | 486435 |
| Resonances in the ${}^{11}\text{B} + {}^{12}\text{C}$ system. (A34). | 486378 |
| inelastic scattering | |
| Nuclear absorption effects in the elastic scattering of ${}^{10}\text{B}$ and ${}^{11}\text{B}$ by ${}^{27}\text{Al}$, ${}^{28}\text{Si}$, and ${}^{30}\text{Si}$. (A34). | 486435 |
| nuclear reaction kinetics | |
| Some regularities of the evolution and disintegration of the double nuclear system formed in deep inelastic collisions of complex nuclei. (A34). [Data] | 486479 |
| resonance scattering | |
| Resonances in the ${}^{11}\text{B} + {}^{12}\text{C}$ system. (A34). | 486378 |
| transfer reactions | |
| The transfer amplitude and angular distributions in heavy-ion reactions. (A34). | 475812 |
| BORON 11 TARGET: | |
| electron reactions | |
| Inelastic electron scattering by ${}^{11}\text{B}$. (A34). | 486443 |
| fluorescence | |
| Research with the 4 MV accelerator. (A34). | 483830 |
| helium 3 reactions | |
| On charge-exchange reactions in the region of mean energies. (A33). | 478605 |
| neutron reactions | |
| Neutron total cross-section measurements of ${}^9\text{Be}$, ${}^{10}\text{B}$, and ${}^{12}\text{C}$ from 1.0 to 14 MeV using the ${}^9\text{Be}(d,n){}^{10}\text{B}$ reaction as a white neutron source. (A34, A31; 10 to 14 MeV). [Data] | 490120 |
| proton reactions | |
| ${}^{11}\text{B}(p,\gamma){}^{12}\text{C}$ reaction. (A34; 5 to 30 MeV: cross sections). [Data] | 486432 |
| The investigation of the ${}^{11}\text{B}(p,n){}^{11}\text{C}$ reaction in the frame of the continuum shell model (CSM). (A33). [Data] | 481493 |
| Low energy cross sections for ${}^{11}\text{B}(p,3\alpha)$. (A14). | 459883 |
| Quadrupole effect on 1 GeV proton elastic scattering on nuclei of p-shell. (A34). | 468436 |
| Radiative capture of intermediate-energy protons to high-lying states in light nuclei. (A34). | 478739 |
| Radiative-emission spectrum of 50-MeV nuclear excitations populated by proton capture. (A33). | 486188 |
| resonance absorption | |
| Research with the 4 MV accelerator. (A34). | 483830 |
| BORON 12: | |
| angular distribution | |
| Experimental search for second-class currents. (A34). | 465222 |
| beta decay | |
| Can we still strongly believe in weak magnetism. (A34). [Data] | 472305 |
| beta spectra | |
| Beta-ray spectra of ${}^{12}\text{B}$ and ${}^{12}\text{N}$ and conserved vector current. (A33). | 483772 |
| beta-minus decay | |
| Allowed β -transitions, weak magnetism and nuclear structure in light nuclei. (A33). | 468274 |
| Beta-ray spectra of ${}^{12}\text{B}$ and ${}^{12}\text{N}$ and conserved vector current. (A33). | 483772 |
| energy levels | |
| Neutron total cross-section measurements of ${}^9\text{Be}$, ${}^{10}\text{B}$, and ${}^{12}\text{C}$ from 1.0 to 14 MeV using the ${}^9\text{Be}(d,n){}^{10}\text{B}$ reaction as a white neutron source. (A34, A31; 10 to 14 MeV). | 490120 |
| hypernuclei | |
| Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). | 464771 |
| nuclear magnetic resonance | |
| Application of the 'new NMR method' to the study of hyperfine interaction of ${}^{12}\text{B}$ and ${}^{12}\text{N}$ in nickel. (A13). | 492633 |
| polarized products | |
| A note on the induced pseudo-scalar coupling constant in $\mu^- + {}^{12}\text{C}(g.s.) \rightarrow {}^{12}\text{B}(1^+, g.s.) + \gamma_{\text{sub}}(\mu)$. (A33). | 483789 |
| second-class currents | |
| Measurement of the nuclear alignment-electron momentum correlation in the g.s. decay of ${}^{12}\text{B}$ and ${}^{12}\text{N}$. (A34). | 465141 |
| BORON 12 TARGET: | |
| proton reactions | |
| Quadrupole effect on 1 GeV proton elastic scattering on nuclei of p-shell. (A34). | 468436 |
| BOSE-EINSTEIN CONDENSATION: | |
| base condensation into a finite momentum state. (A17). | |
| boundary conditions | |
| Bose-Einstein condensation in a one-dimensional system at constant pressure. (A11). [Data] | 480979 |
| nuclear matter | |
| On the effect of non-condensed pions in nuclear medium. (A21). | 481417 |
| obe model | |
| Neutral-meson condensation in nuclear medium from the viewpoint of one-boson-exchange model. (A21). | 481416 |
| rho-765 resonances | |
| A note on possibility of rho ⁰ -meson condensation. (A21). [Data] | 481395 |

BOSE-EINSTEIN STATISTICS:

- density matrix
Two-body density matrix Bose fluids. (A11). 471291
- lagrange equations
Euler-Lagrange equations and hypernetted chain calculations of boson matter. (A11). 471249

BOSON-EXCHANGE MODELS:

See also *OBE MODEL*; *OPE MODEL*

- meson-baryon interactions
Peripheral features of hadron reactions. (A21). 468080

BOSONS:

See also *more specific entries as listed in the INIS Thesaurus.*

- coulomb field
The Nsnp(5/3) law for bosons. (A11). 471262
- density matrix
Two-body density matrix Bose fluids. (A11). 471291
- duality
Bosonized fermions in three dimensions. (A11). 477648
- eigenstates
Coherent-state representation of a charged relativistic boson field. (A21, A11). 486102

- entropy
The entropy density of quasi-free states for a continuous boson system. (A11). 471233

- excited states
Elementary excitation spectrum of a strongly coupling charged Bose gas. (A11, A17). 488672

- ground states
Jastrow wave function of Yukawa Bose fluids: Monte Carlo computation. (A33). 486284
- On the ground state of an interacting boson system. (A11, A17). 488555

- lagrange equations
Euler-Lagrange equations and hypernetted chain calculations of boson matter. (A11). 471249

- leptonic decay
Current investigations in electron-positron annihilation. (A21). 478408

- many-body problem
Non-local interactions and the N-boson problem. (A33). 483761
- A wavepacket representation of equilibrium states of boson fields. (A11). 488735

- quantum chromodynamics
Primitive particle model. (A21, A11). 468113
- quantum field theory
Statistical mechanics of lattice boson field theory. (A11, A21). 467012

- regge trajectories
Comments on boson trajectories in reggeon field theory. (A21). 462546

- renormalization
On the alleged equivalence of certain field theories. (A11). 462091

- statistical mechanics
Statistical mechanics of bosons with attractive interaction. (A11). 459701

- superfluidity
Elementary excitation spectrum of a strongly coupling charged Bose gas. (A11, A17). 488672

- thermal equilibrium
A wavepacket representation of equilibrium states of boson fields. (A11). 488735

- wave functions
On the alleged equivalence of certain field theories. (A11). 462091

- yukawa potential
Jastrow wave function of Yukawa Bose fluids: Monte Carlo computation. (A33). 486284

BOTSWANA:

- hydrology
Study, using stable isotopes, of flow distribution, surface-groundwater relations and evapotranspiration in the Okavango Swamp, Botswana. (B32). [Data] 460883

BOUND STATE:

- mathematical models
Bound-state calculations for certain model potentials by means of a phase-integral method. (A11). 488731

- variational methods
Matrix-variational method: an efficient approach to bound state eigenproblems. (A11). 462076

- wave functions
Application of the N-quantum approximation method to bound state problems. (A21). 468129

- Problems in determining nuclear bound state wave functions. (A33). 478598
- Resonances as components of bound states. (A11). 474408

BOUNDARIES (GRAIN):

See *GRAIN BOUNDARIES*

BOUNDARY CONDITIONS:

- Uniqueness of Neumann-Tricomi problem in IR^2 . Technical note BN-906. (A11; Energy-integral method). 480966

- finite element method
Analysis of optimal finite-element meshes in R. (F50). 492324

- numerical solution
MOLID: a general purpose subroutine package for the numerical solution of partial differential equations. (F50; Method of lines, in FORTRAN). 474383

- A numerical method for calculating Green's functions. (F51). 462052
- The numerical solution of boundary value problems over an infinite domain. (F51). 462053

BOUNDARY LAYERS:

- laminar flow
Ionizing argon boundary layers. (A13). [Data] 474828
- plasma diagnostics
Ionizing argon boundary layers. (A13). [Data] 474828
- plasma instability
Some theoretical aspects of electrostatic double layers. (A14). [Data] 459870

BOUNDARY VALUE PROBLEMS:

See *BOUNDARY CONDITIONS*

BOVINE:

See *CATTLE*

BR-2 REACTOR:

- reactor operation
Main features of the BR2 reactor and, in particular, of its fuel cycle. (E37). 485011

- specifications
Main features of the BR2 reactor and, in particular, of its fuel cycle. (E37). 485011

BRACKISH WATER ECOSYSTEMS:

See *AQUATIC ECOSYSTEMS*

BRAGG ANGLE:

See *BRAGG REFLECTION*

BRAGG DIFFRACTION:

See *BRAGG REFLECTION*

BRAGG GRAY CHAMBERS:

- Experimental study of the cavity theory, using a high pressure ionization chamber. (C11, C55). 465900

- scattering
Theoretical determination of scatter factors at depths in walls of cylindrical chambers. (C55, A32). [Data] 473310

BRAGG LAW:

See *BRAGG REFLECTION*

BRAGG REFLECTION:

- multiple scattering
The shape of Bragg peaks caused by multiple scattering in focussed monochromatic diffraction pictures. (A13). 467410

BRAIN:

See also *CEREBELLUM*; *CEREBRAL CORTEX*; *CEREBRUM*; *THALAMUS*

- anatomy
Anatomical relationships between the ventral mesencephalic tegmentum - A 10 region and the locus coeruleus as demonstrated by anterograde and retrograde tracing techniques. (C62). 482433

- bioassay
Comparative animal experimental studies of the effects of different radiopharmaceuticals on the electroencephalogram. (C21). 476605

- biological radiation effects
Adrenal activity of adult rats irradiated with 150 rads during fetal life. (C14; Gamma radiation). 461032

- Effects of low-dose x-radiation on the matrix cells in the telencephalon of mouse embryos. (C14). 461046

- Medulloblastoma: treatment results and effect on normal tissues. (C15). 476579

- Morphology and cytochemistry of the system of sight in irradiated rabbits. (C14). 465996

- Radiation therapy in lymphomatoid granulomatosis. (C15, C63). 461077

- Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688

- biomedical radiography
Simple method of protecting the eye from scattered radiations during mantle-field therapy. (C15). 469681

- System for electrophysiological control in megavoltage radiotherapy of brain neoplasms. (C63). 494641

- Tomoangiography in diagnosis of cerebral aneurysms. (C61). 480227

- blood circulation
Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471

- Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471

- blood flow
¹³³Xenon inhalation method: significance of indicator maldistribution for distinguishing brain areas with impaired perfusion. An index for total flow. (C62). 470076

- Assessment of non-invasive measurement method of cerebral blood flow using Xe 133. (C31). 473126

- Carotid and regional cerebral blood flow: combined non invasive measurement with radionuclides. (C31). 473113

- The measurement of blood flow in the cerebral hemispheres using a radioactive tracer. (C31). 476627

- Measurement of local cerebral blood flow with Indo [14C] antipyrine. (C62; ¹³¹I, rats, cats). 470155

- Precision and accuracy of cerebral blood flows obtained from the clearance curves of intracarotidally injected Xenon 133. (C31). 469823

- Sensitivity of computed tomography and serial scintigraphy in cerebrovascular disease. (C62, C61; /sup 99m/Tc-pertechnetate). 487683

- cat scanning
Cisternal changes produced by experimental balloon tumours in the posterior cranial fossa. (C61). 473373

- Computer tomography of the brain and spectrophotometry of the CSF in cerebral concussion and contusion. (C61). 480211

- Computerised tomography of the brain. Chapter 2. (C61). 487658

- Metrizamide and radionuclide cisternography in communicating hydrocephalus. (C62, C61, C31). 494523

- Radionuclide computed tomography of the body using routine

- radiopharmaceuticals. II. Clinical applications. (C62). 473408
- Study of the dose to the thyroid and the eye in computed tomography of the brain. (C15, C60). 469718
- Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471
- delayed radiation effects**
- Cranial irradiation in children with lymphoblastic acute leukemia: results and damages. (C15, C63; Incidence of asthenia, anorexia, somnolence, and lethargy as related to irradiation procedure). 472996
- Late effects of whole brain irradiation within the therapeutic range. (C14). [Data] 482018
- Radiosensitivity of central nervous system. (C14, C15). 479878
- early radiation effects**
- Earley changes in cerebral blood flow following head exposure of rabbit at a mean absorbed dose of 1000 rads. (C14). 472949
- Radiosensitivity of central nervous system. (C14, C15). 479878
- glucose**
- [¹⁸F]-labeled 3-deoxy-3-fluoro-D-glucose: synthesis and preliminary biodistribution data. (B13, C21). 468927
- image processing**
- Brain imaging. (C62). 484751
- injuries**
- Computerized tomography (CT), electroencephalography (EEG), and clinical symptoms in severe cranio-cerebral injuries. (C61). 482310
- local radiation effects**
- Experimental study of the long-term effects of cephalic irradiation on local cerebral circulation. Preliminary results. (C14). 482022
- Late response of the cerebral circulation to X-irradiation of the brain in the rat. (C14). 482032
- microwave radiation**
- Application of high-powered microwave irradiation for acetylcholine analysis in mouse brain. (C14). 484511
- neoplasms**
- Cisternal changes produced by experimental balloon tumours in the posterior cranial fossa. (C61). 473373
- Computer applications to estimation of scintigraphic symptoms of brain neoplasms. (C62). 494536
- Delayed effects of megavoltage therapy of brain neoplasms. (C63). 494578
- Medulloblastoma - a changing prognosis. (C63). [Data] 473513
- Medulloblastoma. (C63). 470200
- Medulloblastoma: treatment results and effect on normal tissues. (C15). 476579
- ontogenesis**
- Effects of chronic ingestion of tritiated water on prenatal brain development. (C21; Rats). 473104
- radiation doses**
- Development of a mid-head radiation dose response function. (D15, C15, E14; Phantom determinations of neutron and γ absorbed doses in mid-brain for military applications). [Data] 470256
- Simplified method for intracavitary radiation for recurrent nasopharyngeal Carcinoma. (C15, C64). 487277
- radiation injuries**
- Endocrine factors influencing radiation injury to central nervous tissue. (C15, C63; Incidence of complication following radiotherapy of pituitary adenomas in patients with acromegaly or Cushing's disease). 472991
- radionuclide kinetics**
- Concentration of activity in brain following administration of ¹¹C-labeled α -p-iodoanilinothiophenylacetone nitrile. (C21, B13). 479968
- Synthesis and kinetics of [¹⁸F]4'-fluoroantipyrine in normal mice. (B13, C21, C62). 468920
- scintiscanning**
- Brain scintigraphy by diffusible tracers: intravenous xenon 133 study. (C62). 491305
- A comparison and evaluation of image processing and display methods in brain scintigraphy. (C31). 469828
- Contrast enhanced CT scan and radionuclide brain scan in supratentorial gliomas. (C62, C61, C21; /sup 99m/Tc-pertechnetate). 473409
- Contribution of bone and brain scintigraphy to diagnosis of the extension and nature of skull lesions. (C62). 491299
- Contribution of multi-isotopic explorations in the diagnosis of tumours and cerebral softening. (C62). 487717
- Correlation between scintigraphy and transaxial tomodensitometry in the detection of brain lesions. (C62). 491318
- Early and delayed /sup 99m/Tc glucoheptonate brain scintigraphy: are routine early images indicated. (C62). 473485
- A fundamental study on brain scanning with sup(99m)Tc-citrate. (C62). 491334
- Metrizamide and radionuclide cisternography in communicating hydrocephalus. (C62, C61, C31). 494523
- Neurology. (C62; Radionuclide studies). 482396
- New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99m/Tc). 473442
- Nuclear medicine: confirmation of cerebral death. (C62; use of technetium-99m in scintiscanning). 461399
- Optimization using computer collimation in radionuclide scintigraphy of brain. (C62). 494534
- Possibilities and limits of non-invasive brain exploration methods. (C62). 491319
- Quantitative scintigraphic study of 1300 brain lesions. (C62). 491348
- Results and advantages of brain scintigraphy in the diagnosis of dorsal brain cavity tumors. (C62). 491340
- Sensitivity of computed tomography and serial scintigraphy in cerebrovascular disease. (C62, C61; /sup 99m/Tc-pertechnetate). 487683
- Synthesis and kinetics of [¹⁸F]4'-fluoroantipyrine in normal mice. (B13, C21, C62). 468920
- Use of scintigraphy and cine-angio-scintigraphy to diagnose thrombosis of the superficial intracranial vein sinuses. (C62). 491303
- Ventriculitis: diagnosis with technetium-99m DTPA. (C62). 470084
- What compound should be used for the detection of brain metastases. Comparison of sup(99m)Tc-gluconate with four other technetium-containing compounds (pertechnetate, DTPA, citrate, bleomycin. (C62). 484717
- tomography**
- Computer assisted ringdetector positron camera system for construction tomography of the brain. (C62, E41). 466400
- New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99m/Tc). 473442
- tuberculosis**
- Radioactive bromide partition test in early diagnosis of tuberculous meningitis. (C62). 494541
- ultrastructural changes**
- Postirradiation changes in rat brain. Observations in light- and scanning microscope. (C13). 494288
- BRAKING RADIATION:**
- See BREMSSTRAHLUNG
- BRASS:**
- See also BRASS-ALPHA
- fatigue**
- Fatigue crack growth behaviors of explosively-bonded and roll-bonded clad steel plates. (B22). 481834
- physical radiation effects**
- A study of recovery and recrystallization of plastically deformed α + β brass by positron annihilation. (A13). [Data] 474742
- BRASS-ALPHA:**
- annealing**
- Recovery and recrystallization of plastically deformed α brass - a comparison of positron annihilation, electrical resistance and microhardness results. (A13). [Data] 462180
- electron-positron interactions**
- Positron annihilation in dezinified α -brass. (A13). 462246
- BRASSICA:**
- quantitative chemical analysis**
- Recovery of iodine as iodine-125 from biological materials prior to assay. (B13, B11). [Data] 468912
- Reference material for trace analysis by radioanalytical methods: Bowen's Kale. (B11). [Data] 468678
- BRAZED JOINTS:**
- metallography**
- Metallographic quality control of welding and brazing. (B21, B22). 493897
- reliability**
- Operation reliability of brazed joints in the components of NPP hot loops. (B21, B22). 469074
- thermal expansion**
- Development of brazed connections stable in thermal cycling for materials with different coefficients of thermal expansion. (B22). 460686
- BRAZIL:**
- energy sources**
- Alternative new energy options for Brazil. (F11). 463789
- hydrology**
- Complementary use of environmental isotopes and water chemistry for the hydrogeological study of the Ribeirão Preto groundwater, Brazil. (B32). [Data] 460886
- BREAKDOWN:**
- (Limited to electric discharge phenomena. See also CLEAVAGE or DECOMPOSITION.)
- helium**
- Breakdown of He-gas by alternating electric field near ion cyclotron frequency. (A14). 464424
- probability**
- Influence of a conducting body and space charge in the gap on breakdown probability. (E43). 485157
- sulfur fluorides**
- Delayed electrical breakdown of electron-beam-irradiated SF₆ gas. (A12). 462135
- BREAKERS (CIRCUIT):**
- See CIRCUIT BREAKERS
- BREAKUP REACTIONS:**
- cluster model**
- Cluster model in reaction theory. (A33, A21). 464946
- cross sections**
- Deuteron breakup induced by low-energy protons and alpha particles. (A34). 478732
- nuclear reaction kinetics**
- Continuous particle spectra from direct break-up reactions. (A33). [Data] 486196
- BREASTS:**
- See MAMMARY GLANDS
- BREATH:**
- biological radiation effects**
- Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276
- radiation effects**
- Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276

- sampling**
Postprandial changes in the exhalation of radon from the environment. (B33, C21). 479721
- BREATHING:**
See BREATH
- BREEDER REACTORS:**
See also BN-350 REACTOR; BOR-60 REACTOR; CLINCH RIVER BREEDER REACTOR; DFR REACTOR; EBR-2 REACTOR; FBR TYPE REACTORS; GCFR REACTOR; GCFR TYPE REACTORS; JOYO REACTOR; KALPAKKAM LMFB REACTOR; LMFB TYPE REACTORS; LWBR TYPE REACTORS; MONJU REACTOR; PFR REACTOR; PHENIX REACTOR; PLBR REACTOR; RAPSDIE REACTOR; SNR REACTOR; SNR-2 REACTOR; SUPER PHENIX REACTOR; ZEBRA REACTOR
- corrosion**
Surface and microstructural characterization of commercial breeder reactor candidate alloys exposed to 700°C sodium. (E35, B15). 477272
- economics**
Status and prospects of advanced fissile fuel breeders. (A14, F11, E16). 471675
- feasibility studies**
Source driven breeding thermal power reactors using lithium free neutron sources. (E35). 470748
- fuel cans**
Feasibility of Zircaloy as a fuel clad and structural material in an LAFR-LWR. (E35, B25). 466732
- Surface and microstructural characterization of commercial breeder reactor candidate alloys exposed to 700°C sodium. (E35, B15). 477272
- fuel cycle**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- fuel elements**
Nuclear fuel assembly. (E35). 477290
- nuclear power**
The role and problems of the breeder. (E35). 491971
- planning**
Development status and potential program for development of proliferation-resistant molten-salt reactors. (E35). 466723
- radioactive effluents**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- reactor safety**
Safety problems of NPP with the N_2O -dissociating coolant. (C52). 469932
- specifications**
Contained fissionably vaporized imploded fission explosive breeder reactor. (E21; Patent). 470500
- thermal effluents**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- thermal neutrons**
On the possibility of decreasing doubling time in the thermal-neutron molten-salt breeder reactor. (E35). 488121
- BREEDING:**
(Fuel breeding only. See also ANIMAL BREEDING and PLANT BREEDING.)
- linear accelerators**
Accelerator breeder concept. (E16). 461542
- research programs**
Accelerator breeder concept. (E16). 461542
- BREEDING BLANKETS:**
- aerosols**
Lithium vapor/aerosol studies. Interim summary report. (A14). 485833
- breeding ratio**
Sensitivity analysis of neutronics calculation in the preliminary design of Japan Experimental Fusion Reactor. (A14). [Data] 489381
- energy spectra**
Measurements and calculations of fast neutron spectra in a graphite-reflected lithium assembly. (A14). 475056
- hybrid reactors**
Hybrid reactor blankets for constant energy multiplication and flat power distribution. (E21). 480546
- hydraulics**
Thermal-hydraulic study of fusion-Synfuel blankets. (A14, B12). 459916
- maintenance**
Blanket replacement in toroidal fusion reactors. (A14). 475092
- Comparison of five reactor concepts on the basis of scheduled maintenance requirements. (A14). 475014
- Developing maintainability for tokamak fusion power systems. Phase II report. Volume I: executive summary. (A14). 485714
- materials testing**
Application of martensitic stainless steels in long lifetime fusion first wall/blankets. (A14, B25; HT-9). 485799
- Compatibility considerations for the use of solid breeders. (A14, B22). 485680
- Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- Evaluation of materials for EPR power generation. (A14, B25). 471691
- Neutronic performance of candidate tritium breeding materials. (A14). 485748
- Performance of ceramic materials in high temperature steam and hydrogen. (A14, B23). 485736
- mathematical models**
Dynamics of Newtonian annular jets. (A14). 464440
- mechanical properties**
Thermal-hydraulic considerations in magnetically confined fusion reactors. (A14; Study of thermal fatigue problems). 485752
- molybdenum**
Induced activities of fusion reactor structural materials. (A14). 467568
- neutron flux**
Neutronic calculations for graphite-thorium assemblies, 14 MeV neutron sources. (A34). 490197
- Nuclear characteristics of D-D fusion reactor blankets. (A14). 471695
- neutron reactions**
Sensitivity of the first wall radiation damage to fusion reactor blanket composition. (A14). 459855
- neutron transport theory**
Application of discrete-ordinates transport methods to analysis of fusion-fission hybrid blankets. (A14). 471701
- Fusion energy for alternate applications: the design of a high temperature falling bed as a long-lived blanket. (A14). 464337
- performance**
Economic performance of liquid-metal fast breeder reactor and gas-cooled fast reactor radial blankets. (E35). 488168
- Structural performance of a graphite blanket in fusion reactors. (A14). 475156
- production**
One- and two-dimensional heating analyses of fusion synfuel blankets. (A14). 475141
- radiation heating**
Effects of neutron source ratio on nuclear characteristics of D-D fusion reactor blankets and shields. (A14). [Data] 489276
- Nuclear characteristics of D-D fusion reactor blanket. (2). (A14). 464426
- radioactivation**
Induced activities of fusion reactor structural materials. (A14). 467568
- shielding**
Effects of neutron source ratio on nuclear characteristics of D-D fusion reactor blankets and shields. (A14). [Data] 489276
- simulation**
Integral measurements in a simulated fast breeder reactor blanket. (E35). 491984
- spatial distribution**
Buoyancy effects on sodium coolant temperature profiles measured in an electrically heated mock-up of a 61-rod breeder reactor blanket assembly. (E35). 488135
- specifications**
Comparison of minimum-activity aluminum blanket/shield designs for D-T and D- ^3He fusion blankets. (A14). 459939
- Design of a modular blanket with gas cooled liquid lithium. (A14). 475005
- Doublet demonstration fusion power reactor. (A14). 475065
- Evaluation of potential blanket concepts for a Demonstration Tokamak Hybrid Reactor. (A14). 474974
- Novel blanket design for ICTR's. (A14). 474928
- Nuclear design of the LLL-GA U_3Si blanket. (A14). 471679
- Nucleonic analysis of fusion blankets for synthetic fuel production. (A14, B12). 459889
- Nucleonic design for a compact tokamak fusion reactor blanket and shield. (A14). 462292
- Parametric study of a lithium-cooled tokamak blanket. (A14). 459874
- Stainless steel blanket concept for tokamaks. (A14). 478090
- Tokamak blanket design study: FY 78 summary report. (A14). 485831
- Tokamak reactors and structural materials. (A14). 478018
- thermal fatigue**
Thermal-hydraulic considerations in magnetically confined fusion reactors. (A14; Study of thermal fatigue problems). 485752
- thermodynamics**
The current status of fusion reactor blanket thermodynamics. (A16). 460151
- Thermal-hydraulic study of fusion-Synfuel blankets. (A14, B12). 459916
- tritium**
An experimental method for direct measurement of tritium in Li blanket assemblies. (E41). 470895
- tritium recovery**
Fusion reactor research. (A14). 467494
- Study of tritium removal from fusion reactor blankets of molten salt and lithium-aluminum. (A14). 464490
- BREEDING RATIO:**
- lmfbr type reactors**
Neutronics calculations with EQUICYCLE version 3 on two heterogeneous LMFB concepts. (E35). [Data] 480684
- optimization**
Neutron theory, breeding properties and doubling time in a breeder reactor. (E35). 463680
- BREMSSTRAHLUNG:**
See also INTERNAL BREMSSTRAHLUNG; ONDULATOR RADIATION; SYNCHROTRON RADIATION
- absorption**
Inverse bremsstrahlung absorption in strong radiation fields during binary collisions: 'straight-line path' approximation. (A12). 488884
- angular distribution**
Electron bremsstrahlung angular distributions in the 1-500 keV energy range. (A12). 467330
- Extension to high frequencies of a program for calculating the angular distribution of nonrelativistic bremsstrahlung. (A12, F51). 483136

- buildup**
Comparative study of dosimetric aspects of 4-MeV linear accelerator. (D15, A32). 461464
- channeling**
Theory of relativistic positron and electron bremsstrahlung under channelling conditions. (A13). 471585
- crystals**
Angular distribution and polarization of electron bremsstrahlung in crystal. (A32). 493131
- depth dose distributions**
Radiation burden on the surface tissue layers during high-energy bremsstrahlung therapy. (C55, C63). 494470
- differential cross sections**
Corrective coefficients to the electron bremsstrahlung cross sections. (A32). 493127
- dose rates**
Bremsstrahlung produced by the linear accelerator of electrons with the energy 4 MeV. (E16). 473728
- dosimetry**
Study on the dose distribution of 8-MeV bremsstrahlung in mantle field techniques. (D15). 491411
- electron beams**
Angular distribution and polarization of electron bremsstrahlung in crystal. (A32). 493131
- Experimental study on forward bremsstrahlung spectra for heavy-atom materials at 4.7 and 10.8 MeV energy of incident electrons. (A32). 493126
- electron channeling**
Spectral and orientational characteristics of 800 MeV electron radiation in axial channeling in a diamond crystal. (A13). 492713
- gamma radiation**
Radiation of ultrarelativistic charge taking into account for multiple scattering. (A32). 468255
- linear accelerators**
Bremsstrahlung produced by the linear accelerator of electrons with the energy 4 MeV. (E16). 473728
- multiplicity**
Bremsstrahlung statistics. 2. (A11). 492454
- particle kinematics**
"Forbidden" asymmetries and choices of geometry in proton-proton bremsstrahlung. (A21). 489779
- radiation doses**
Photon burst dosimetry with an adiabatic calorimeter. Application to the pulsed generator 'Thalie'. (D15). 473575
- radiation flux**
Shielding study of bremsstrahlung in bulk media with 22 MeV electrons. (A32). [Data] 490031
- radiotherapy**
Formation of Mantle-like fields of high-energy bremsstrahlung. (C63). 482463
- x radiation**
Radiation of ultrarelativistic charge taking into account for multiple scattering. (A32). 468255
- x-ray spectra**
Computation of bremsstrahlung X-ray spectra and comparison with spectra measured with a Ge(Li) detector. (A32, C55). [Data] 472122
- Rapid computation of diagnostic s-ray bremsstrahlung spectra. (A32). [Data] 468251
- BREMSSTRAHLUNG (MAGNETIC):**
See SYNCHROTRON RADIATION
- BRIDGES (ELECTRIC):**
See ELECTRIC BRIDGES
- BRILLOUIN EFFECT:**
backscattering
Brillouin scattering from CO₂ laser plasmas in strong transverse magnetic fields. (A14). 483357
- Saturation of stimulated Brillouin backscatter in CO₂-laser-plasma interaction. (A14). [Data] 464428
- BRILLOUIN SCATTERING:**
See BRILLOUIN EFFECT
- BRINES:**
corrosion
Corrosion studies on retrievable spent fuel containers: a progress report. (E52, B15, E15). 461970
- diffusion**
Effects of temperature, temperature gradients, stress, and irradiation on migration of brine inclusions in a salt repository. (E52). 495220
- BRITTLENESS:**
fractures
Evaluation of brittle fracture safety in technical regulations. (E17). 487945
- BROADENING (LINE):**
See LINE BROADENING
- BROMATES:**
(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- thermal degradation**
A comparative study of the influence of doping and irradiation on the thermal decomposition of barium bromate. (B14). 472533
- BROMIDES:**
See also more specific entries as listed in the INIS Thesaurus.
- chemical reaction kinetics**
Kinetics of chlorine-ammonia reactions in seawater. Annual report, June 1, 1977 - May 31, 1978. (B12). [Data] 475973
- inhibition**
Analytical application of Cherenkov radiation Pt. 2. (D22). 480315
- oxidation**
Kinetics of the rapid reaction $\text{Br}_2 + 2 \text{I}^- \rightarrow \text{I}_2 + 2 \text{Br}^-$ in aqueous solution. (B12). 465385
- BROMINATED ALIPHATIC HYDROCARB:**
See ORGANIC BROMINE COMPOUNDS
- BROMINATED HYDROCARBONS:**
See ORGANIC BROMINE COMPOUNDS
- BROMINATION:**
chemical radiation effects
Investigation of mechanism of radiation chain hydrobromization of ethylene at 30-90 K. (B14). 479197
- activation analysis**
Athens 1° x 2° NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
- Determination of trace elements in poly(methyl methacrylate) by neutron activation analysis. (B11; Neutron reactions). [Data] 478829
- Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- Groundwater tracing with post-sampling activation analysis using bromide and iodide ions injected simultaneously into a shallow-well system. Master's thesis. (B31, B11). 469516
- Harrisburg 1° x 2° NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- atom-molecule collisions**
Ion-pair formation in some potassium-molecule collisions. Dependence on the vibrational energy. (A12). 459757
- chemical analysis**
Environmental monitoring near industrial sites: brominated chemicals. Part II: appendix. Final report 19 Jul-16 Dec 77. (B11, C52). 475899
- chemical reaction kinetics**
Thermal rate constants, energy dependence, and isotope effect for halogen-hydrogen halide reactions. (B12). 468808
- chemical reactions**
Thermodynamic investigation of equilibrium in the InSe-Br₂ system. (B12). 468740
- comparative evaluations**
Tracing underground water movement using three NAA-detected halogen tracers. (B32). 472852
- diet**
Dietary bromine in the Glasgow area. (C43). [Data] 463322
- dissociation**
Halogen recombination: dissociation reactions. Current status. (B12). 460445
- fission**
Characteristics of nucleons in central collisions of relativistic nuclei of the iron group with Ag and Br nuclei and the nuclear pionization phenomenon. (A22, A34). 493113
- fission products**
Evaluated neutron cross sections and resonance integrals of the fission products from Z=32-37. (A33). [Data] 493274
- heavy ion reactions**
Characteristics of nucleons in central collisions of relativistic nuclei of the iron group with Ag and Br nuclei and the nuclear pionization phenomenon. (A22, A34). 493113
- ion collisions**
K-shell ionization of elements ²⁸Cu to ³⁷Rb for 0.4-3.8-MeV/amu ¹⁹B-ion bombardment. (A12). 474624
- ion-molecule collisions**
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- neutron activation analysis**
Bromine and iodine contents of sedimentary rocks from Tomioka, Gunma Prefecture, Japan. (B11). 468586
- The determination of bromine in biological material by thermal neutron activation analysis. (B11). 472333
- neutron reactions**
Study of the systematics for (n,2n) reactions. (A34; 14.8 MeV). 460363
- recombination**
Halogen recombination: dissociation reactions. Current status. (B12). 460445
- solvent extraction**
Solvent extraction behaviour of iodine and bromine in aqueous-organic systems, analogy with radioactive decay. (B12). [Data] 479060
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
- BROMINE BROMIDES:**
See BROMINE
- BROMINE CHLORIDES:**
molecule-molecule collisions
Quasiclassical trajectory study of the four-center reactions: $\text{HBr} + \text{Cl}_2$ and $\text{HBr} + \text{BrCl}$. (A12). [Data] 463955
- BROMINE COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- BROMINE IODIDES:**
See IODINE BROMIDES
- BROMINE IONS:**
positron-ion collisions
Solvated positron chemistry. II. (A12). 467265
- BROMINE ISOTOPES:**
See also BROMINE 70; BROMINE 75; BROMINE 76; BROMINE 77; BROMINE 78; BROMINE 79; BROMINE 80; BROMINE 81; BROMINE 82; BROMINE 85; BROMINE 86; BROMINE 87; BROMINE 88; BROMINE 89

BROMINE 70:

- half-life
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- mass
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542

BROMINE 75:

- isotope production
Excitation functions for the production of ^{76}Kr and ^{77}Kr . (A34, D13). [Data] 468502

BROMINE 76:

- hot atom chemistry
Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444
- isotope production
Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444

BROMINE 77:

- energy-level transitions
Population of the sup(77,79,81)Br lower-lying levels in the (p, γ) reaction. (A34, A33). 493384
- hot atom chemistry
Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444
- isotope production
Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444
- Production of ^{77}Br by various nuclear reactions. (D13). [Data] 463488
- Simple production of ^{77}Br and ^{123}I and their use in the labelling of [^{77}Br]BrUdR and [^{123}I] IUdR. (D13). [Data] 470232

BROMINE 78:

- energy levels
The level structure of ^{78}Br . (A34). 475824

BROMINE 79:

- energy-level transitions
Population of the sup(77,79,81)Br lower-lying levels in the (p, γ) reaction. (A34, A33). 493384
- laser isotope separation
Versatile, isotopically specific hydrogen halide TEA pin laser. (B12). 490355

BROMINE 79 TARGET:

- proton reactions
 ^{79}Br and ^{81}Br (p,xn) and (p,pxn) excitation functions in the energy range 10–85 MeV. (A34). 486366
- Production of ^{76}Kr and ^{77}Kr . (A34, D13). 490188

BROMINE 80:

- binding energy
High energy halogen atom reactions activated by nuclear transformations. Progress report, February 15, 1978–February 14, 1979. (B13). [Data] 486718
- hippuric acid
On the propagation of ^{80}Br -biomolecules- ^{80}Br -bromohippuric acid. (B13). [Data] 462766
- isobaric analogs
Isobaric analogue resonances in the $^{80}\text{Se}(p, n)^{80}\text{Br}$ reaction. (A34). 460339

- radiopharmaceuticals
On the propagation of ^{80}Br -biomolecules- ^{80}Br -bromohippuric acid. (B13). [Data] 462766

BROMINE 81:

- energy-level transitions
 ^{81}Br excited states. (A34). 493385
- Population of the sup(77,79,81)Br lower-lying levels in the (p, γ) reaction. (A34, A33). 493384
- laser isotope separation
Versatile, isotopically specific hydrogen halide TEA pin laser. (B12). 490355

BROMINE 81 TARGET:

- proton reactions
 ^{79}Br and ^{81}Br (p,xn) and (p,pxn) excitation functions in the energy range 10–85 MeV. (A34). 486366

BROMINE 82:

- distribution functions
Solvent extraction behaviour of iodine and bromine in aqueous-organic systems, analogy with radioactive decay. (B12). [Data] 479060

- tracer techniques
Investigation of mixing processes in the production of carbon and SIC materials by means of radioactive labelling. (D24). 482535

BROMINE 85:

- beta-minus decay
Total β -decay energies and masses of $^{85-89}\text{Br}$. (A34). [Data] 468435

BROMINE 86:

- beta-minus decay
Total β -decay energies and masses of $^{85-89}\text{Br}$. (A34). [Data] 468435
- separation processes
A rapid paper electrophoretic separation for short-lived bromine in fission products. (B13). [Data] 490467

BROMINE 87:

- beta-minus decay
Investigation of beta strength functions by neutron and gamma-ray spectroscopy. I. (A34). 475828
- Total β -decay energies and masses of $^{85-89}\text{Br}$. (A34). [Data] 468435
- delayed neutron precursors
Does the simple statistical model describe delayed neutron emission. (A33). 483792

BROMINE 88:

- beta-minus decay
Total β -decay energies and masses of $^{85-89}\text{Br}$. (A34). [Data] 468435
- separation processes
A rapid paper electrophoretic separation for short-lived bromine in fission products. (B13). [Data] 490467

BROMINE 89:

- beta-minus decay
Total β -decay energies and masses of $^{85-89}\text{Br}$. (A34). [Data] 468435

BROMODEOXYURIDINE:

See BUDR

BROMOFORM:

- ecological concentration
Biocide by-products in aquatic environments. Annual report, October 1, 1977–September 30, 1978. (C52, B11; Analysis and toxicity of by-products from chlorine used in nuclear power plant cooling systems). [Data] 473199

- retention
Biocide by-products in aquatic environments. Annual report, October 1, 1977–September 30, 1978. (C52, B11; Analysis and toxicity of by-products from chlorine used in nuclear power plant cooling systems). [Data] 473199

BROMOURACILS:

See also BUDR

- bromine 77
Simple production of ^{77}Br and ^{123}I and their use in the labelling of [^{77}Br]BrUdR and [^{123}I] IUdR. (D13). 470232

- chemical preparation
Preparation of pure pyrimidine derivatives labelled with tritium. 3. (B13). 486714

- radiopharmaceuticals
Simple production of ^{77}Br and ^{123}I and their use in the labelling of [^{77}Br]BrUdR and [^{123}I] IUdR. (D13). 470232

BRONCHI:

- neoplasms
Lung blood supply in patients with bronchus cancer before and after radiotherapy (according to angioscanning data). (C63). 494642

- technetium 99
Elimination of test particles from the human tracheobronchial tract by voluntary coughing. (C21). 463227

- xenon 133
Quantitative regional ventilation and perfusion investigations with ^{133}Xe . (C62). 461412

BRONCHITIS:

- biomedical radiography
Roentgeno-radioisotope investigation of lungs in chronic pneumonitis and bronchitis. (C62, C61). 482372

- radioisotope scanning
Roentgeno-radioisotope investigation of lungs in chronic pneumonitis and bronchitis. (C62, C61). 482372

BROOKHAVEN AGS:

- Conventional meson spectroscopy at AGS energies. (E16). 480525
- Prospects for hadronic production of charmed particles at the AGS. (E16). 480456
- Some opportunities for weak interaction investigations at the AGS. (E16). 480405

- accelerator facilities
AGS capabilities and possible improvements. (E16). 480523

- beam dumps
Beam dump experiments at the AGS. (E16). 480512
- Stopping pion and muon beams at the Brookhaven AGS. (E16). 480472

- beam dynamics
Measurement of the longitudinal coupling impedance in the Brookhaven AGS. (E16). 477051

- beam extraction
AGS slow extraction improvements. (E16). 494782
- 1.5 GeV/c multimurn shaving extraction and its transport line for the Brookhaven AGS. (E16). 477086

- beam monitors
Microprocessor based beam loss monitor system for the AGS. (E16). 477088
- Tests of a new secondary emission chamber at the AGS. (E16, E41; Extracted beam intensity). 480528

- beam transport
Beam transfer from the AGS to ISABELLE. (E16). 480524
- High field superconducting beam transport in a BNL primary proton beam. (E16). 476954

- multiparticle spectrometers
MPS capabilities and planned improvements. (E16, E41). 480494
- MPS configuration and performance characteristics. (E16). 480489

- performance
AGS capabilities and possible improvements. (E16). 480523

- polarized beams
Possibility of polarized beams at the AGS. (E16). 466526

- radiation monitoring
Microprocessor based beam loss monitor system for the AGS. (E16). 477088

- research programs
Anti KN system. (E16, A21). 482638
- Funding outlook and the impact of ISABELLE. (E16). 480522

- specifications
AGS capabilities and possible improvements. (E16). 487939

- superconducting magnets
High field superconducting beam transport in a BNL primary proton beam. (E16). 476954

- uses
Hyperon physics at the AGS. (E16). 480466
- Neutrino oscillation searches at the AGS. (E16). 480513
- Neutrino physics at the AGS. (E16). 480511

- Review of neutrino physics at Brookhaven. (E16). 480487

BROOKHAVEN HIGH FLUX BEAM R.:

See HFBR REACTOR

BROOKHAVEN INTERS. STOR. ACCEL:

See ISABELLE STORAGE RINGS

BROOKHAVEN NATIONAL LABORATORY:

See BNL

BROWNIAN MOVEMENT:

Brownian motion of a quantum oscillator and random walk in phase space. (A11). 463910

Kinetic equations from Hamiltonian dynamics. (A11). 492494

Brownian motion in persistent fluctuations (without thermal equilibrium). (A11). 492426

Low friction nonlinear mobility for the diffusive motion in periodic potentials. (A11). 459696

Aspects of the theory of Brownian motion. (A11). 492460

Low friction nonlinear mobility for the diffusive motion in periodic potentials. (A11). 459696

Derivation of stochastic transport equations for systems of interacting brownian particles. (A11). 492436

BROWNS FERRY-2 REACTOR:

Forward planning of refuelling outages. (E31, E32). 473863

BROWNS FERRY-3 REACTOR:

Browns Ferry charcoal adsorber incident. (C52, E31). 466316

BRUECKNER MODEL:

Comparison between nuclear matter calculations in the Brueckner and correlated basis functions approaches. (A33). 472175

BRUECKNER POTENTIAL:

See BRUECKNER MODEL

BRUECKNER-WATSON THEORY:

See BRUECKNER MODEL

BRUNO LEUSCHNER-1 REACTOR:

See GREIFSWALD-1 REACTOR

BRUNO LEUSCHNER-2 REACTOR:

See GREIFSWALD-2 REACTOR

BRUNSBUETTTEL REACTOR:

Brunsbuettel incident - events, experience. (E31). 477205

BRUNSWICK-1 REACTOR:

Determination of fit-up stresses in the recirculation bypass line in the Brunswick 1 Reactor. (E31). 488033

BSR-2 REACTOR:

Computational model for the Oak Ridge National Laboratory (ORNL) Bulk Shielding Reactor (BSR). (E36). 488188

BUBBLE CHAMBERS:

See also CRYOGENIC BUBBLE CHAMBERS

A method for digitizing projected bubble chamber pictures. (E41). 485033

A method for digitizing projected bubble chamber pictures. (E41). 485033

High spatial resolution particle physics detectors. (E41). 492081

Cross-sections for charged channels in K bar P interactions between 1470 and 1550 MeV C.M. energy. (A12). 488819

Delay line proportional chambers for the Fermilab external muon identifier. (E41). 466816

External Muon Identifiers (EMI) at CERN. (E41). 466762

Automatic measurement of 12 GeV/c anti pp interactions in the CERN 2 m HBC. (E41). 470818

High spatial resolution particle physics detectors. (E41). 492081

The superheated drop detector. (E41). 492044

BUBBLES:

Processes and instruments for detecting bubbles in a medium as a liquid metal. (E11). 484821

Irregular helium bubbles in niobium alloys. (B25, A13). 481909

On-line ultrasonic gas entrainment monitor. (E42, E35; Patent; LMFBR fission gas bubble release). 470989

BUCKLING:

(For neutron density distribution in reactors; for structural buckling see DEFORMATION or FAILURES.)

See also MATERIAL BUCKLING

Complex buckling modes in asymmetric cell lattices. (E21). 461594

Some experiences with highly enriched fuel at the reactor RB. (E36). 477305

BUCKLING (STRUCTURAL):

See DEFORMATION

BUCKWHEAT:

Buckwheat as a potential source of high-quality protein. (C41). 463290

BUDR:

The use of ultraviolet light in the fractionation of chromatin containing unsubstituted and bromodeoxyuridine-substituted DNA. (C11). 490934

(C11). 490934

Tritiated uracil, tritiated thymidine, and bromodeoxyuridine induced mutations in eucaryotic cells. (C12, C11; Saccharomyces cerevisiae, gamma radiation). 472930

New approach to the analysis of survival data. (C11; Definition of parameters determined from data without regard to any assumed mechanism of action). 472924

Isolation of mRNA and a cell free protein synthesizing system for the synthesis of amidating enzyme from the nuclei of gamma irradiated potato buds. (C13). 494289

Correlation between dietary nitrogen, level of plasma urea and urea excretion in urine of buffalo calves. (C44). 461151

BUILDING (CONSTRUCTING):

See CONSTRUCTION

BUILDING FOUNDATIONS:

See FOUNDATIONS

BUILDING MATERIALS:

The radiation exposure from outside in the Federal Republic of Germany through natural radioactive materials in the open and in houses. (C55). 491233

Continuous moisture measurement in the building material industry. (D22). 473588

Fitting normal distributions of the observed thorium, radium, emanating radium, potassium and emanating power data for concrete and brick in Hungary. (B31). [Data] 472846

Progress report on the Grand Junction uranium mill tailings remedial action program. (C21, C52, C54; Program to reduce humane exposure from buildings involving the use of mill tailings in their construction). 469742

Autoradiography of several components in one sample: determination of ²⁴Na and ⁴⁵Ca distribution in silica building material samples. (B11). 481651

Progress report on the Grand Junction uranium mill tailings remedial action program. (C21, C52, C54; Program to reduce humane exposure from buildings involving the use of mill tailings in their construction). 469742

Radioactivity in consumer products. (B31, C15). 494205

Airborne radioactivity. (B33; Radon in indoor air). 479696

Influence of high temperature exposure on heavy grout. (B24). 469394

Assessment of seismic wave effects on soil-structure interaction. (C52). 461177

Base response arising from free-field motions. (C52). 461325

Comparison of artificial and natural earthquake time history functions with regard to their floor response spectra. (C52). 461183

Seismic response analysis of nuclear reactor buildings under consideration of soil-structure interaction with torsional behaviour. (C52, E31). 461252

Observation of high concentrations of radon in certain houses. (B33). 487158

Endochronic constitutive model for general hysteretic response of soils. Final report. (B24). 472725

Vertical vibration test results of auxiliary building of the No. 1 Genkai nuclear power plant utilizing explosion test of excavating base rocks of the No. 2 plant. (E32). 477246

Formerly utilized MED/AEC sites remedial action program: radiological survey of the former GSA, 39th Street Warehouse, 1716 Pershing Road, Chicago, Illinois. Final report. (E50). 461900

Effects of home ventilation systems on indoor radon-radon daughter levels. Final report. (B33; Comparison of air and timers, central blowers, and outside air ventilation on radioactivity levels in room air). 476497

- Progress report on the Grand Junction uranium mill tailings remedial action program. (C21, C52, C54; Program to reduce humane exposure from buildings involving the use of mill tailings in their construction). 469742
- radon**
- A study on radon in dwellings. (C21, B33). 487311
- resonance**
- The problem of resonance in the evaluation of floor response spectra. (C52). 461272
- safety**
- Safety analysis report 306-W Building. (C54). 466351
- seismic effects**
- Analytical procedure in aseismic design of eccentric structure using response spectrum. (C52). 461300
- Combination of torsional, rotational and translational responses in the seismic analysis of a nuclear power plant. (C52, E22). 487537
- Direct evaluation of floor response spectra from a given ground response spectrum. (C52). 461290
- Dynamic analysis of a reactor building on alluvial soil. (C52). 461169
- An extensive study on a simple method estimating response spectrum based on a simulated spectrum. (C52). 461288
- Floor response spectra from spectrum compatible motions. (C52). 461199
- Inelastic seismic studies of buildings. (C52). 461208
- Inelastic seismic response of turbine buildings. (C52). 461226
- Methods for prediction of strong earthquake ground motion. (C52; EQRISK, for finding uniform risk spectra; SYNACC, for generating synthetic accelerograms). 487597
- Modeling of slabs in seismic analysis of nuclear power plant buildings. (C52). 461271
- Monodimensional schematization of soil for seismic response analysis. (C52). 461193
- shielding**
- Effects of man's residence inside building structures on radiation doses from routine releases of radionuclides to the atmosphere. (C21, C15, C52, B33). 469761
- BUILDINGS (CONTAINMENT):**
See *CONTAINMENT BUILDINGS*
- BUILDUP:**
- bremsstrahlung**
- Effect of bremsstrahlung on buildup factors on deep γ -ray penetration. (A32). 490018
- BULK SHIELDING REACTOR-2:**
See *BSR-2 REACTOR*
- BUNCHING (BEAM):**
See *BEAM BUNCHING*
- BUNDLES (FUEL ELEMENTS):**
See *FUEL ELEMENT CLUSTERS*
- BURNABLE POISONS:**
- control elements**
- Burnable neutron absorber rod. (E24). 466639
- gadolinium oxides**
- Method to determine the gadolinium content in nuclear fuels and equipment to perform the method. (E23). 473807
- reactivity coefficients**
- Critical experiments on light water lattices of UO_2 and Gd_2O_3 rods. (E31, E32). 461677
- BURNOUT:**
- annular space**
- Boundary vapor contents in an annular channel. (E11). 494692
- film boiling**
- On the dispersion of experimental data on critical heat flux for an underheated boiling liquid at low flow rates. (E11). 487826
- flow models**
- An experimental and theoretical investigation of annular steam-water flow in tubes and annuli at 30 to 90 bar. (E11). [Data] 494695
- BURNS:**
- sodium**
- Manual on early medical treatment of possible radiation injury with an appendix on sodium burns. (C21). 491024
- BURNUP:**
- Developing isotopic functions. (F41, B16). 466947
- Development of depletion perturbation theory for coupled neutron/nuclide fields. (E23). 473815
- comparative evaluations**
- Burnup determination of some fuel specimens. (B16). 469033
- computer codes**
- Net IBK computer program package for the needs of planning, construction and operation of nuclear power plants. (F50, E21). 477541
- gamma fuel scanning**
- Effects of cesium-137 distributions in fuel bundle on intensity of gamma-ray in gamma scan method. (E23). 477148
- gamma spectra**
- Burnup determination of some fuel specimens. (B16). 469033
- isotope ratio**
- Burnup determination by the isotope ratios $^{134}\text{Cs}/^{137}\text{Cs}$ and $^{154}\text{Eu}/^{137}\text{Cs}$. (B16). 486810
- Correlation of the uranium and plutonium isotope compositions with burn-up for natural uranium fuel. (B11, B16). [Data] 465260
- Determination of actinides and fission products by mass spectrometric isotopic dilution for burnup measurement of nuclear fuels. (B11). [Data] 462651
- mass spectroscopy**
- Determination of burn-up in fast reactors by simplified mass spectrometric ^{148}Nd determination. (B11). 468635
- mathematical models**
- Technique for sensitivity analysis of space- and energy-dependent burn-up calculations. (E22). 491764
- natural uranium reactors**
- Correlation of the uranium and plutonium isotope compositions with burn-up for natural uranium fuel. (B11, B16). [Data] 465260
- two-dimensional calculations**
- CCB, a two-dimensional diffusion theory continuous cross-section burnup code for fast reactor analysis. Final report. (E35). 470742
- BURST CAN DETECTION:**
See *FAILED ELEMENT DETECTION*
- BURST CAN MONITORS:**
See *FAILED ELEMENT MONITORS*
- BURST REACTORS:**
See *PULSED REACTORS*
- BURST SLUG DETECTION:**
See *FAILED ELEMENT DETECTION*
- BURST SLUG MONITORS:**
See *FAILED ELEMENT MONITORS*
- BUTADIENE:**
- chemical radiation effects**
- Improvement in physical properties of poly(vinyl chloride) by radiation-induced graft copolymerization with mixed monomers. (B14; γ radiation). 460599
- Kinetic studies of the radiation-induced graft polymerization of butadiene onto poly(vinyl chloride). (B14; γ rays). 468963
- electron-molecule collisions**
- Electron impact study of the energy levels of trans-1,3-butadiene. (A12). 474574
- life span**
- The role of vascular disorders in pathogenesis of intestinal radiation syndrome. (C14). 479861
- BUTANE:**
- electron-molecule collisions**
- Application of the 'helium excitation standard' procedure to some hydrocarbon Hsub(β) absolute emission cross section measurements. (A12). 483189
- BUTANOIC ACID:**
See *BUTYRIC ACID*
- BUTANOLS:**
- chemical reactions**
- One-electron reduction of tris(2,2'-bipyridine) and tris(1,10-phenanthroline) complexes of cobalt(III) in aqueous solution. (B14; Pulsed irradiation). [Data] 472543
- polarized targets**
- Recycling of butanol from irradiated target material. (B12). 484049
- BUTENES:**
- chemical reaction yield**
- Selective formation of trans-2-butene-1,4- d_2 and (E)-2-methyl-2-butene-1,4- d_2 in deuteration of 1,3-butadiene derivatives over thorium oxide catalyst. (B12). [Data] 478954
- electron collisions**
- Electron impact spectra of some mono-olefinic hydrocarbons. (A12). 474595
- electron-molecule collisions**
- Application of the 'helium excitation standard' procedure to some hydrocarbon Hsub(β) absolute emission cross section measurements. (A12). 483189
- BUTT WELDS:**
See *WELDED JOINTS*
- BUTYL ALCOHOLS:**
See *BUTANOLS*
- BUTYL PHOSPHATES:**
See also *TBP*
- BUTYLENES:**
See *BUTENES*
- BUTYRIC ACID:**
- radioassay**
- Specific methods for the determination of radioactivity in D-(-)-3-hydroxybutyrate in blood plasma. (C31). 494353
- BUTYRIC ALCOHOLS:**
See *BUTANOLS*
- BW STANDARD REACTOR:**
- atws**
- Probabilistic accident analysis: ATWS. (C52, E32). 491122
- BWR TYPE REACTORS:**
See also more specific entries as listed in the *INIS Thesaurus*.
- Effect of nickel hydroxide injections on the mass transfer of corrosion products in high temperature, high pressure water circuits. (E31, B15). 480631
- Power reactors '78. (E30; Annual directory of data on the world's power reactors). 466647
- Stress corrosion resistance of XM-19 stainless steel. (B15, B22, E31). 486782
- air cleaning**
- Failures in air-monitoring, air-cleaning, and ventilation systems in commercial nuclear power plants (Jan. 1, 1975 - June 30, 1978). (C52). 476701
- Review of failures in nuclear air cleaning systems (1975 - 1978). (C52, E31, E32). 480117
- atws**
- Anticipated transients without scram for light water reactors. (C52, E31, E32). 469944
- Experiment requirements for the study of anticipated transients with and without scram. (C52, E31, E32; BWR; PWR). 461194
- Probabilistic safety analysis IV. Final report. (C52, E31, E32; BWR; PWR). 487475
- b codes**
- A point reactor dynamics code for a dual cycle boiling water reactor. (E21). 482657

| | | |
|--|--------|--------|
| blowdown | | |
| Analysis of the General Electric Company swell tests with RELAP4/MOD7. (C52, E31; BWR). | 487480 | |
| Application of implicit numerical methods to problems in two-phase flow. (C52, E31, E32, E11; BWR;PWR). | 487527 | |
| Dryout delay during blowdown. (C52, E31). | 480023 | |
| Experiments and nonequilibrium analysis of pipe blowdown. (C52, E31, E32, E11; BWR; PWR). | 461326 | |
| Synopsis of the BWR blowdown heat-transfer program. (C52, E31, E11). | 466281 | |
| condensates | | |
| Condensate polishing in nuclear power stations with boiling water reactors. (E31, B15). | 466664 | |
| condensation chambers | | |
| Pressure suppression device for nuclear power plant. (E24). | 491812 | |
| Pressure suppression device. (E24). | 482726 | |
| Suppression chamber. (E31). | 470625 | |
| construction | | |
| Construction status report: nuclear power plants. Data as of December 31, 1978. (F11, E31, E32; USA). | 466912 | |
| containers | | |
| Reactor container. (E31; pressure release system in container). | 470620 | |
| containment shells | | |
| Applicability of flat plate methods in determining fluid/structure interaction effects in BWR pressure suppression systems. (C52, E31). | 494410 | |
| Buckling criteria and application of criteria to design of steel containment shell. (E31, E32; PWR; BWR). | 491872 | |
| Effect of torus wall flexibility on hydro-structural interaction in BWR containment system. (C52, E31). | 491170 | |
| Effects of torus wall flexibility on forces in the Mark I BWR pressure suppression system: extended analyses under SRV T-quencher loading. (E31). | 488038 | |
| Effects of torus wall flexibility on forces in the Mark I boiling water reactor pressure suppression system. Final report. (C52, E31). | 480106 | |
| containment spray systems | | |
| Comparative evaluation of containment spray additives: detrimental impacts of an inadvertent spray actuation. (E31, E32; BWR; PWR). | 488049 | |
| containment systems | | |
| Analysis and testing of steam chugging in pressure systems. Interim report. (C52, E31; BWR). | 461163 | |
| Analysis of steam chugging phenomena. Volume 2: user's manual for the CHUG1 computer program. (C52, E31; BWR). | 469959 | |
| Analysis of steam chugging phenomena. Volume 1: a fundamental thermohydraulic model to predict steam chugging phenomena. (C52, E31; BWR). | 469958 | |
| Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). | 469975 | |
| Analysis to justify increased allowable stresses for the Mark I vent header when subjected to pool swell impact loading. (E31; BWR). | 461680 | |
| Containment negative pressure evaluation. (E31, E32; BWR; PWR). | 470652 | |
| CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). | 487496 | |
| Effects of torus wall flexibility on forces in the Mark I Boiling Water Reactor Pressure Suppression System. Part I. (C52, E31). | 469937 | |
| Technical bases for the SRSS method of combining dynamic responses. (E31; BWR). | 461687 | |
| Water impact tests of rigid and flexible cylinders. (C52, E31). | 482197 | |
| control elements | | |
| Control rod for nuclear power plant. (E24). | 491807 | |
| control rod drives | | |
| Monitor for scram reactivity. (E24). | 477187 | |
| coolant cleanup systems | | |
| Coolant cleanup system in reactor. (E31). | 473851 | |
| Refueling outage water clarity improvement study. Final report. (E31, E32; PWR; BWR). | 488028 | |
| System of cooling and purifying coolant. (E31). | 470612 | |
| core catchers | | |
| Core catcher for nuclear reactor core meltdown containment. (E31, E32; Patent; BWR; PWR). | 461672 | |
| core spray systems | | |
| Method and apparatus for emergency cooling of a nuclear power plant. (E24). | 473832 | |
| cost | | |
| CONCEPT-5 user's manual. (F11, E31, E32; Power plant costs). | 461991 | |
| cranes | | |
| Single-failure-proof cranes for nuclear power plants. (E31, E32; PWR; BWR). | 488048 | |
| criticality | | |
| Development of the criticality capability for the SAM-CE Monte Carlo System. (E31, E32; BWR; PWR). | 488042 | |
| Recalculation of a critical configuration of fuel assemblies for a BWR on the basis of ENDF/B-IV data. (E21). | 470506 | |
| decontamination | | |
| Systems approach to decontamination of nuclear power plants. (E31, E32). | 473854 | |
| district heating | | |
| District heating from light water reactor power plants. (E31, E32). | 463621 | |
| The influence of district heat production on the operation and safety of light water reactors at nuclear heat and power stations. | | |
| (E31, E32). | | 473873 |
| earthquakes | | |
| A modified rigid base approach for the seismic analysis of nuclear power plants. (C52). | 461187 | |
| Studies on the aseismatic property of BWR type nuclear power stations. (E31). | 482743 | |
| ECC | | |
| ECC Bypass scaling. (C52). | 494428 | |
| Effect of scale on two-phase countercurrent flow flooding in annuli. Final report, April 1978 - March 1979. (C52, E31, E32; PWR; BWR). | 494427 | |
| Impact of component outages on ECCS/ECI unavailability. (C52, E31, E32). | 487559 | |
| RAP: a simple core reflood analysis program. (C52, E31, E32, E11; BWR; PWR). | 487542 | |
| economics | | |
| Effects of environmental protection and public safety regulatory practices upon light water reactor economics. (F11, F22). | 488397 | |
| Procedure for estimating nonfuel operation and maintenance costs for large steam-electric power plants. (F11). | 461996 | |
| electric cables | | |
| Cable tray fire tests. (E31, E32; PWR; BWR). | 461681 | |
| electric motors | | |
| Test program for class 1E d-c motor control center. (C52, E31; BWR steam line rupture effects). | 473195 | |
| excorium | | |
| Fuel rod behavior during a reactivity initiated accident at energy depositions near 280 cal/g UO ₂ . (C52, E31). | 487572 | |
| Fuel vapor pressure (FVAPRS). (C52, E31, E32; BWR;PWR). | 480113 | |
| Light water reactor fuel response during reactivity initiated accident experiments. (C52, E31). | 491173 | |
| failed element detection | | |
| Method of detecting failed fuels. (E31). | 473877 | |
| Monitoring fuel for defects. (E23, E31, E32). | 477140 | |
| fatigue | | |
| Corrosion fatigue in pressure vessel steels for light water reactors. (E31, E32, B15). | 491870 | |
| feedwater | | |
| Feedwater device of power plant. (E31). | 477216 | |
| Reactor feedwater system. (E31). | 482740 | |
| filters | | |
| Evaluation of new filter/demineralizer precoat materials. (E31). | 470630 | |
| Washing method of filter. (E31; by injecting exhaust gas from ventilator or air conditioner). | 491854 | |
| fission products | | |
| Carbon-14 production in nuclear reactors. (E31, E32, E33). | 473859 | |
| Nuclear data library of fission products for decay power calculation. (C52, E31, E32; BWR; PWR). | 491202 | |
| Sensitivity analysis of the effect of various key parameters on fission product concentration (Mass Number 133 to 138). (B11). | 490315 | |
| [Data] Sensitivity analysis of the effect of various key parameters on fission product concentration mass number 127 to 132 and Xe - 133 m). (B11). [Data] | 490314 | |
| flow regulators | | |
| Operation and control device in the abnormal state of a nuclear power plant. (E24). | 473840 | |
| flowmeters | | |
| JAERI instrumented spool piece performance in two-phase flow. (E31, E32). | 494934 | |
| fuel assemblies | | |
| Fuel supporting metal fitting. (E31). | 477208 | |
| Inner structure for nuclear power plant. (E31). | 491859 | |
| fuel cans | | |
| Code Development and Analysis Program: cladding mechanical limits (CMLIMIT). (E31, E32, B22). | 494939 | |
| Deformation characteristics of Zircaloy cladding in vacuum and steam under transient-heating conditions: summary report. (E31, E32, B22; PWR; BWR). | 466662 | |
| Embrittlement of zircaloy cladding due to oxygen uptake (CBRTTL). (C52, E31, E32; BWR; PWR). | 466324 | |
| Iodine stress-corrosion cracking in irradiated Zircaloy cladding. (E31, E32, B15; PWR; BWR). | 491861 | |
| Zircaloy cladding deformation and fracture analysis. Research projects 700 and 971; interim report, August 1978. (E31, E32; BWR; PWR). | 470636 | |
| fuel cycle | | |
| Description of alternative steady-state fuel cycles. (E31, E32, B16). | 466661 | |
| International symbiosis: the role of thorium and the breeders. (F12). | 488415 | |
| Investigations of LWR design modifications for improved fuel utilization in once-through cycle. (E31, E32). | 473853 | |
| Sensitivity of LWR fuel cycle costs to uncertainties in detailed thermal cross sections. (E31, E32). | 466674 | |
| Sensitivity of water reactor fuel cycle parameters and costs to nuclear data. (E31, E32). | 466659 | |
| fuel element clusters | | |
| Two-phase flow patterns with high-pressure water in a heated four-rod bundle. (E31, E32, E11; BWR;PWR). | 480637 | |
| fuel element failure | | |
| Impact of pellet-cladding interaction on fuel integrity: a status report. (E31, E32; PWR;BWR). | 466671 | |
| Indian experience in performance of light water reactor fuel elements. (E31). | 491846 | |
| Methods for determining the cost of fuel failures in nuclear power plants. Final report. (E31, E32; BWR;PWR). | 470642 | |
| Observations on damage accumulation during iodine-induced stress | | |

- corrosion cracking of Zircaloy cladding. (C52, E31, E32, B15; PWR; BWR). 473234
- fuel elements**
- The causes and behaviour of fabrication defects in BWR type fuel. (E31). 491869
- Critical separation between subcritical clusters of low enriched UO₂ rods in water with fixed neutron poisons. (E31, E32, E15; PWR; BWR). 473856
- Data report for the NRC/PNL Halden Assembly IFA-432. (E31, E32; BWR; PWR). 461678
- Fission gas release (FGASRL). (E31, E32; BWR; PWR). 470634
- Fuel performance improvement program. Quarterly/annual progress report, October 1977 - September 1978. (E31, E32; BWR; PWR). 480623
- Fuel relocation as deduced from the gas flow resistance and thermal behavior of Halden Assembly IFA-430. (E31, E32; BWR; PWR). 491848
- Influence of fuel rod characteristics on performance. (E31, E32). 494932
- LWR fuel performance program: progress in 1978. Special report. (E31, E32). 473874
- The main causes of fuel element failure in water-cooled power reactors. (E31, E32, E34). [Data] 484947
- Requirements for analysis of transient fuel rod behavior during design basis events. Final report. (E31, E32; BWR; PWR). 488029
- fuel fabrication plants**
- Enrichment and gadolinia assurance systems at Japan Nuclear Fuel Company for boiling water reactor fuels. (E31, E23). 494942
- fuel management**
- Improving LWR fuel utilization. (E32, E31). 463634
- Method of refueling in bwr type nuclear power plant. (E31). 491875
- fuel pellets**
- Irradiation-induced densification and PuO₂ particle behavior in mixed oxide LWR fuels. (E31, E32, B25). 473861
- Method for fabricating ceramic nuclear fuel pellets. (E31). 482750
- fuel pins**
- Nuclear pin simulation analysis. (C52, E31, E32). 461217
- fuel rods**
- Comparisons of light water reactor pellet transient thermal response with FRAP-T4 predictions during reactor shutdown events under normal cooling conditions. (E31, E32; PWR; BWR). 488046
- Critical experiments on light water lattices of UO₂ and Gd₂O₃ rods. (E31, E32). 461677
- Demonstration of fuel resistant to pellet-cladding interaction. Phase I. Final report. (E31, E32, E34). 488051
- Ex-reactor determination of thermal gap and contact conductance between uranium dioxide: zircaloy-4 interfaces. Stage I: low gas pressure. (E31, E32; PWR; BWR). 494937
- FRAP-T3: a computer code for transient analysis of oxide fuel rods; model assessment report. (E31, E32; PWR; BWR). 473858
- FRAPCON-1: a computer code for the steady state analysis of oxide fuel rods. (E31, E32; PWR; BWR). 488041
- Fuel assembly. (E31). 482748
- Fuel behavior model development: FRAPCON-2 uncertainty analysis option. (E31, E32; PWR; BWR). 488045
- Fuel thermal conductivity (FTHCON). Status report. (E31, E32; PWR; BWR). 470626
- Fuel vapor pressure (FVAPRS). (C52, E31, E32; BWR; PWR). 480113
- Gap conductance test Series-2: test results report for Tests GC 2-1, GC 2-2, and GC 2-3. (E31; BWR). 470621
- Postirradiation examination data report for GAP conductance test series. Test GC 2-2. (E31, B25; BWR). 480628
- Reactivity initiated accident test series, test RIA I-1. Quick look report. (C52, E31; BWR). 482225
- fuel storage pools**
- Critical separation between subcritical clusters of low enriched UO₂ rods in water with fixed neutron poisons. (E31, E32, E15; PWR; BWR). 473856
- Refueling outage water clarity improvement study. Final report. (E31, E32; PWR; BWR). 488028
- Spent fuel heatup following loss of water during storage. (E31, E32; PWR; BWR). 480621
- fuel-cladding interactions**
- Demonstration of fuel resistant to pellet-cladding interaction. Phase I. Final report. (E31, E32, E34). 488051
- Impact of pellet-cladding interaction on fuel integrity: a status report. (E31, E32; PWR; BWR). 466671
- Observations and hypothesis on pellet-clad interaction failures. (E31, E32; BWR and PWR type reactors). 484946
- Observations on damage accumulation during iodine-induced stress corrosion cracking of Zircaloy cladding. (C52, E31, E32, B15; PWR; BWR). 473234
- Zircaloy cladding deformation and fracture analysis. Research projects 700 and 971; interim report, August 1978. (E31, E32; BWR; PWR). 470636
- fuel-coolant interactions**
- Steam explosion triggering and efficiency studies. (C52, E31, E32; PWR; BWR). 473211
- gamma fuel scanning**
- Use of a gain stabilized NaI(Tl) gamma ray detection system to determine the power shape in light water reactor cores. (E24, E31, E32). 466645
- heat transfer**
- BWR steady-state capability of the WRAP-EM system. (C52, E31). 480147
- high pressure coolant injection**
- Rapid starting-up device of high pressure core injection system. (E24). 470578
- hydraulics**
- BWR steady-state capability of the WRAP-EM system. (C52, E31). 480147
- in core instruments**
- Dynamic surface-pressure instrumentation for rods in parallel flow. (E31, E32; BWR; PWR). 491863
- Neutron noise to detect BWR-4 in-core instrument tube vibrations and impacting. (E31). 488034
- inspection**
- Preservice and inservice inspection of light water moderated nuclear power plant pressure-containing components. (E31, E32). 463624
- instability**
- Method and device for monitoring instable state of reactor. (E24). 473817
- leak testing**
- Leak test in nuclear plants. (E31). 482739
- load management**
- Feasibility study of core management system by data communication for boiling water reactors. (F11, E31). 485199
- Grid frequency control capability of a modern BWR. (F11, E31). 485195
- Network transients and incidents as design requirements for the ASEA-ATOM BWR 75. (F11, E31). 485206
- loss of coolant**
- Analysis and testing of steam chugging in pressure systems. Interim report. (C52, E31; BWR). 461163
- Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). 469975
- Analysis of steam chugging phenomena. Volume 2: user's manual for the CHUG1 computer program. (C52, E31; BWR). 469959
- Analysis of steam chugging phenomena. Volume 1: a fundamental thermalhydraulic model to predict steam chugging phenomena. (C52, E31; BWR). 469958
- Analytical model for bottom reflooding heat transfer in light water reactors. (C52, E31, E32, E11). 473203
- Applicability of flat plate methods in determining fluid/structure interaction effects in BWR pressure suppression systems. (C52, E31). 494410
- BWR loss-of-coolant accident analysis capability of the WRAP-EM system. (C52, E31). 480028
- Complete BWR-EM LOCA analysis using the WRAP-EM system. (C52, E31). 491119
- Computational methods in thermal reactor safety. (C52, E31, E32; PWR; BWR). 491188
- CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). 487496
- Current capabilities of transient two-phase flow instruments. (C52, E31, E32, E11, E42; BWR; PWR). 487581
- Deformation characteristics of Zircaloy cladding in vacuum and steam under transient-heating conditions: summary report. (E31, E32, B22; PWR; BWR). 466662
- Development of BNL Heat Transfer Facility 1: flashing experiments. (C52, E31, E32). 480100
- Developmental verification of the FRAP uncertainty analysis option. (C52, E31, E32, E11; BWR; PWR). 469946
- Effect of torus wall flexibility on hydro-structural interaction in BWR containment system. (C52, E31). 491170
- Eulerian fluid-structure analysis of BWR. (C52, E31). 487532
- Experimental investigations of nonequilibrium flashing of water in a converging-diverging nozzle. (C52, E31, E32, E11; BWR; PWR). 487620
- Heat transfer correlation development and assessment: a summary and assessment of return to nucleate boiling phenomena during blowdown tests conducted at the Idaho National Engineering Laboratory (INEL). (C52, E31, E32; PWR; BWR). 487469
- Implementation of a nonequilibrium condensation model in RELAP4/MOD7. (C52, E31, E32). 473225
- Improved RELAP4 BWR jet pump model. (C52, E31). 480134
- Improved RELAP4 Jet Pump Model. (C52, E31; BWR). 480133
- K-FIX: a computer program for transient, two-dimensional, two-fluid flow. THREEED: an extension of the K-FIX code for three-dimensional calculations. (C52, E31, E32, E11; BWR; PWR). 466325
- Measurement of phase separation in wytes and tees. (C52, E31, E32, E11; BWR; PWR). 461225
- Multinod Burst Test Program progress report, July - December 1978. (C52, E31, E32; BWR; PWR). 491133
- Network computations using a transient two-phase velocity difference model. (C52, E11; BWR; PWR). 461246
- Nuclear data library of fission products for decay power calculation. (C52, E31, E32; BWR; PWR). 491202
- Post-dryout heat transfer under low flow and low quality conditions. (C52, E31, E32, E11; BWR; PWR). 469953
- Review of two-phase steam-water critical flow models with emphasis on thermal nonequilibrium. (C52, E31, E32, E11; BWR; PWR). 466327
- Seismic safety margins research program. Project VIII load combination project: work plan. (C52, E31, E32; PWR; BWR). 491134
- Some numerical results with the COMMIX-2 computer code. (C52, E31, E32, E11; BWR; PWR). 491197
- A study of the release of fission products from the fuel elements at a core meltdown in a LWR and the transport of the elements in the reactor vessel and in the containment. (C52). 461186
- Survey on vertical two-phase countercurrent flooding. (C52, E31, E32, E11; BWR; PWR). 461307
- Two-phase flow phenomena in nuclear reactor technology. Quarterly progress report no. 8, 1 Mar-31 May 1978. (C52, E31, E32, E11). 491167

- Two-phase interactions in countercurrent flow. Annual report, November 1977 - October 1978. (C52, E31, E32; PWR; BWR). 466291
- User's guide for the BWR LOCA analysis capability of the WRAP-EM system. (C52, E31). 480022
- low-level radioactive wastes**
- Activity levels of transuranic nuclides in low-level solid wastes from U.S. power reactors. (E50). 488315
- meltdown**
- Influence of gas generation on high-temperature melt/concrete interactions. (C52, E31, E32, E35, B15; BWR; PWR; LMFBR). 469951
- Steam explosion triggering and efficiency studies. (C52, E31, E32; PWR; BWR). 473211
- Steam explosion triggering and efficiency studies. (C52, E31, E32; BWR; PWR). 476683
- TRAP-MELT users manual. (C52, E31, E32; BWR; PWR). 466307
- neutron detectors**
- Neutron flux detection system. (E24). 477154
- neutron flux**
- Neutron flux determination in the reactor cavities of LWRs. (E31, E32). 488050
- neutron monitors**
- Device for detecting reactor neutron flux. (E24). 473819
- off-gas systems**
- Boiling water reactor off-gas systems evaluation. (E31). 494940
- on-line control systems**
- Development of a diagnosis system for a boiling water reactor. (E24, E31). 488014
- personnel**
- Basic questions relating to the radiation exposure of the population due to boiling water reactors. (C52). 491205
- BWR Services maintenance training program. (E31). 491847
- Determining effectiveness of ALARA design and operational features. (C52, E31, E32). 480070
- Experience with personnel training- for nuclear power plants supplied by General Electric. (F61). 485258
- Preliminary assessment of the potential impacts on operating nuclear power plants of a 500 mrem/year occupational exposure limit. (C52, C53). 466335
- pipelines**
- High temperature electrochemical studies of the stress corrosion of Type 304 stainless steel. (B15, E31). 493830
- power conditioning systems**
- Power control device in an atomic power plant. (E24). 470602
- power distribution**
- Stability of radial-azimuthal power distribution in boiling channel reactors. (E33). 488086
- power-cooling-mismatch accident**
- Damage and failure of unirradiated and irradiated fuel rods tested under film boiling conditions. (C52, E31, E32; BWR; PWR). 487533
- Potential for cladding thermal failure in LWRs during high temperature transients. (C52, E31, E32). 487472
- pressure regulators**
- Abnormality judging device in pressure control system. (E24). 470588
- pressure suppression**
- Studies on pressure suppression pool dynamic loads. (E31). 491857
- Water impact tests of rigid and flexible cylinders. (C52, E31). 482197
- pressure vessels**
- Acoustic emission monitoring of intermediate pressure vessels tested under the ORNL heavy-section steel technology program. (E31, E32; BWR; PWR). 466670
- Application of acoustic emission as an on-line monitoring system for nuclear reactors. Final progress report, January 1, 1976 - September 30, 1976. (E31, E32; BWR; PWR). 461682
- Approximate method of elastic-plastic fracture analysis for nozzle corner cracks. (E31). 470635
- Corrosion fatigue of pressure vessel steel A533B. Part. (B22, B25). 479396
- Fatigue growth in piping and rpv steels in simulated BWR water environment. (E31, B22). 488037
- Flaw evaluation procedures. (E31, E32; BWR; PWR). 470633
- Fracture toughness of fabrication welds investigated by metallographic methods. (E31, E32; BWR; PWR). 461669
- Measurement and analysis of gamma ray induced contamination of neutron dosimetry procedures used for reactor pressure vessel applications. Final report. (E32, E31; PWR; BWR). 488077
- Reactor pressure vessel. (E31). 477217
- SAI/EPRI Albedo Information Library. (E31, E32, A31; BWR; PWR). 488054
- Stress analysis of cylindrical pressure vessels with closely spaced nozzles by the finite-element method. Volume 3. Vessels with three nozzles under internal pressure and external loadings. (E31, E32; BWR; PWR). 480635
- Use of HEDL codes in the sensitivity and uncertainty analysis of the pressure vessel embrittlement damage function problem. (E31, E32; FERRET; SAND II). 466665
- primary coolant circuits**
- BWR type reactor recirculation system by valve flow quantity control. (E24). 473816
- Cooling water recirculation device for nuclear power plant. (E31). 491852
- Evaluation of operational techniques that can reduce radiation fields in LWRs during maintenance. Final report. (E31, E32). 488040
- Interphase momentum transfer in the flow of bubbles through nozzles. Topical report. (E31, E32; PWR; BWR). 477210
- Literature review of dilute chemical decontamination processes for water-cooled nuclear reactors. (E31, E32). 488031
- Studies on AISI Type-304 stainless steel piping weldments for use in BWR application. (B15, E31). 468993
- Test plan: large scale molten salt-water vapor explosion studies to be conducted at Ispra, Italy. (C52, E31, E32; PWR; BWR). 473231
- pumps**
- Improved RELAP4 BWR jet pump model. (C52, E31). 480134
- Improved RELAP4 Jet Pump Model. (C52, E31; BWR). 480133
- radiation doses**
- Radiation exposure in LWR's higher than predicted. (C52). 463382
- radiation protection**
- Getting at the source: reducing radiation fields. (C52, E31, E32; BWR; PWR). 487573
- radiation streaming**
- Analysis of reactor cavity radiation streaming: some practical considerations. (E31, E32; BWR; PWR). 488053
- Neutron flux determination in the reactor cavities of LWRs. (E31, E32). 488050
- Radiation shielding for BWR shield wall penetrations. (E32). 488067
- Shield design against neutron streaming in the vicinity of a BWR pressure vessel. (E31). 488052
- radioactive effluents**
- Accident descriptions for emergency response exercise scenarios. (C52, E31, E32, C21; PWR; BWR). 461202
- Airborne particulate releases from light-water reactors. Final report. (C52, E31, E32). 491136
- Calculation of releases of radioactive materials in gaseous and liquid effluents from boiling water reactors (BWR-GALE Code). (C52, E31). 461173
- Calculation of releases of radioactive materials in gaseous and liquid effluents from light-water-cooled power reactors. (F22, E32, E31). 466928
- Radioactive materials released from nuclear power plants. Annual report 1977. (C52). [Data] 466288
- radioactive waste facilities**
- Application of volume reduction to a BWR radwaste system. (E31). 473852
- radioactive waste processing**
- Application of volume reduction to a BWR radwaste system. (E31). 473852
- radioactive wastes**
- Sources of radioactive waste from light-water reactors and their physical and chemical properties. (E31, E32). 473855
- radioactivity**
- Basic questions relating to the radiation exposure of the population due to boiling water reactors. (C52). 491205
- reactor accidents**
- Accident descriptions for emergency response exercise scenarios. (C52, E31, E32, C21; PWR; BWR). 461202
- Annotated bibliography of safety-related events at boiling-water nuclear power plants as reported in 1977. (C52, E31). 469966
- FRAP-T5: a computer code for the transient analysis of oxide fuel rods. (C52, E35). 494435
- Light water reactor fuel response during reactivity initiated accident experiments. (C52, E31). 480108
- Modeling vertical loads in pools resulting from fluid injection. (C52, E31). 480093
- Quality assurance for TRAC development. (C52, E31, E32; BWR; PWR). 487575
- SOLA-DF: a solution algorithm for nonequilibrium two-phase flow. (C52, E31, E32; PWR; BWR). 494409
- SOLA-LOOP: a nonequilibrium, drift-flux code for two-phase flow in networks. (C52, E32, E31; BWR; PWR). 494408
- Technical bases for the SRSS method of combining dynamic responses. (E31; BWR). 461687
- Thermal fuels behavior program. Program overview and research results. (C52, E31, E32). 487619
- Two-phase flow phenomena in nuclear reactor technology. Quarterly progress report No. 8, March 1, 1978 - May 31, 1978. (C52, E31, E32; PWR; BWR). 466312
- Two-phase flow phenomena in nuclear reactor technology. Quarterly progress report No. 9, June 1, 1978 - August 31, 1978. (C52, E31, E32; PWR; BWR). 466311
- reactor charging machines**
- Fuel charging machine. (E31). 491876
- reactor components**
- Perspectives for a European Reliability Data System for light water reactors. (C52, E31, E32). 491111
- Seismic safety margins research program. Project VIII load combination project: work plan. (C52, E31, E32; PWR; BWR). 491134
- reactor control systems**
- Device for automatic determination of start-up process. (E24). 470582
- Failure detection system for neutron detectors. (E24). 473831
- New method for low sensitivity design of a controller for a load following BWR power plant. (E24, E31). 488015
- A process of rapidly reducing the power of a nuclear reactor. (E31, E32; water reactor). 463615
- Reactor thermal power monitoring device. (E24). 477171
- reactor cooling systems**
- Blow-off device for limiting excess pressure in nuclear power plants, especially in boiling water nuclear power plants. (E31; Patent). 480632
- Cooling device at shut-down. (E31). 470627
- Development and testing of standardized procedures and reference data for LWR surveillance. (E31, E32). 488043
- Empirical formula predicting shutdown dose rate of the recirculation pipes in boiling water reactors. (C52, E31). 491206

- Fatigue growth in piping and rpv steels in simulated BWR water environment. (E31, B22). 488037
- Heat cost in a Swedish agrothermal plant. (E30, E31; BWR). 461661
- Investigation and evaluation of stress-corrosion cracking in piping of light water reactor plants. (E31, E32). 470641
- Prevention of troubles on LWR's instruments. (E31, E32). 477195
- Survey of corrosion product generation, transport, and deposition in light water nuclear reactors. Final report. (E31, E32). 488026
- reactor core disruption**
- Heat and mass transport processes of a horizontal melting or decomposing layer under a molten pool. (C52, E32, E35, B15; BWR; PWR; LMFBFR). 469893
- reactor cores**
- Applications of the thermite code to 3D thermal hydraulic analysis of LWR cores. (E31, E32). 461683
- Core support structure for nuclear power plants. (E31, E32; Patent; BWR; PWR). 480633
- New core design to BWRs simplifies operation. (E31). 491845
- On-line core performance evaluation and operating guidance system for boiling-water reactors. (E31, E24). 477209
- Potential for the reduction of core melt probability. (C52, E31, E32). 487474
- reactor fueling**
- Review of modifications performed to core monitoring systems related to core reloading. (E31, E32; BWR; PWR). 470617
- reactor kinetics**
- A point reactor dynamics code for a dual cycle boiling water reactor. (E21). 482657
- reactor licensing**
- Alteration of reactor installation (addition of Unit 2) in the Fukushima Nuclear Power Station No. 2 of the Tokyo Electric Power Company, Inc. (C52). 482202
- Alteration of reactor installation (Unit 1) in Fukushima Nuclear Power Station II of the Tokyo Electric Power Company, Incorporated. (C52). 482200
- reactor maintenance**
- Procedure for estimating nonfuel operation and maintenance costs for large steam-electric power plants. (F11). 461996
- reactor materials**
- Creep damage in zircaloy-4 at LWR temperatures. (B22, E31, E32). 469204
- Fracture toughness of fabrication welds investigated by metallographic methods. (E31, E32; BWR; PWR). 461669
- MATPRO-Version 11: a handbook of materials properties for use in the analysis of light water reactor fuel rod behavior. (E31, E32, B22). 477203
- reactor noise**
- 'Quantization' of stochastic variables; description and effects on the input noise sources in a BWR. (E21). 494897
- Numerical calculation of the global and local components of the neutron noise field in BWR's. (E31). 488032
- Theoretical investigation of the local and global component of the neutron-field in boiling water reactor. (E21, E31). 470498
- reactor operation**
- Improvement of rate of operation of LWRs. (2). (E31). 477212
- Licensed operating reactors. Operating units status report, data as of 4-30-79. (E31, E32). 491866
- Licensed operating reactors. Operating units status report, data as of 2-28-79. (E31, E32; USA). 473871
- Licensed operating reactors. Operating units status report, data as of 1-31-79. (E31, E32; USA). 473870
- Method for driving reactors. (E24). 473835
- Method for operating nuclear power plant. (E31). 491873
- Method for operating nuclear reactor. (E31). 477223
- Operating experience with West European light-water reactors. (E32, E31). [Data] 480647
- Procedure for estimating nonfuel operation and maintenance costs for large steam-electric power plants. (F11). 461996
- Trends in power station achievement with age, for different ranges of size of thermal reactors. (E31, E32, E33). 463618
- reactor protection systems**
- Estimating common cause failure probabilities in reliability and risk analyses: Marshall-Olkin specializations. (C52, E31). 480161
- LLL field test systems division support to the U.S. Nuclear Regulatory Commission. FY 1978 progress report. (C52, E31, E32). 480136
- reactor safety**
- NRC/RSR Data Bank Program. (C52, F30). [Data] 473206
- Water reactor safety research program. A description of current and planned research. (C52, E31, E32). 491180
- reactor shutdown**
- Model for the prediction of shutdown margin for boiling water reactors. (E31). 461689
- Outages at light-water-reactor power plants: a review of 1973-1977 experience. (E31, E32). 477218
- Regression model for the prediction of shutdown margin for boiling water reactors. (E31). 494944
- reactor simulators**
- Modelling and use of the STUDS nuclear power plant simulator. (E31, F51). 480622
- residual power**
- Effects of the depletion and buildup of fissile nuclides and of ^{238}U fast fissions on fission product decay power. (E31, E32). 461688
- Fission product decay power and uncertainties after realistic reactor operating histories. (E31, E32). 466679
- rod drop accidents**
- Experiment data report for test RIA-ST (Reactivity Initiated Accident Test Series). (C52, E31, E36; BWR). 473282
- Physics analysis of PBF test RIA 1-3 (PNL hardware). (C52, E32; BWR). 466321
- sabotage**
- Program plan. Nuclear power plant design concepts for sabotage protection. (E31, E32; PWR; BWR). 461673
- seismic effects**
- Seismic safety margins research program. Phase I. Project VII: systems analysis specifications of computational approach. (C52, E31, E32; PWR; BWR). 487447
- Studies on the aseismic property of BWR type nuclear power stations. (E31). 482743
- shielding**
- Radiation shielding for BWR shield wall penetrations. (E32). 488067
- Radiation shielding for BWR shield wall penetrations. (E31, A32). 461676
- Shield design against neutron streaming in the vicinity of a BWR pressure vessel. (E31). 488052
- Shield design against neutron streaming in the vicinity of a BWR pressure vessel. (E31). 461686
- spent fuel elements**
- Evaluation of potential chemical/mechanical degradation processes affecting fuel and structural materials under long-term water storage. (E31, E32; PWR; BWR). 491878
- U.S. LWR spent fuel inventories. (E30). 470603
- spent fuel storage**
- Evaluation of potential chemical/mechanical degradation processes affecting fuel and structural materials under long-term water storage. (E31, E32; PWR; BWR). 491878
- Handling and storage of spent fuel from light-water power reactors. (E31, E32). 466658
- Method and device for storing irradiated respectively spent fuel assemblies from pressurized and boiling water reactors. (E31, E32). 466672
- Spent fuel heatup following loss of water during storage. (E31, E32; PWR; BWR). 480621
- standardization**
- To create standardized Japanese type LWR. (E31, E32). 482733
- steam**
- Analytical techniques for stress analysis of the nuclear steam-supply system: a bibliography. (E31, E32; PWR; BWR). 491850
- steam generators**
- Heavy section steel technology (HSST) program. (B22, B25). 490566
- steam lines**
- Test program for class 1E d-c motor control center. (C52, E31; BWR steam line rupture effects). 473195
- steam turbines**
- User's instructions for ORCENT II: a digital computer program for the analysis of steam turbine cycles supplied by light-water-cooled reactors. (E31, E32). 461675
- superheaters**
- Improvements to apparatuses for steam drying and superheating. (E31; BWR type reactors). 470618
- technology transfer**
- International nuclear technology transfer. (E31). 473857
- thorium cycle**
- International symbiosis: the role of thorium and the breeders. (F12). 488415
- Once-through thorium cycle for BWR's. (E32). 491915
- Thorium fuel cycle: a nuclear strategy and fuel recycle technology. (F12, E31, E32, E35, E33). 462003
- transient overpower accidents**
- Reactivity initiated accident test series, test RIA 1-1. Quick look report. (C52, E31; BWR). 482225
- transients**
- Nuclear pin simulation analysis. (C52, E31, E32). 461217
- Self-initialization module for the RELAP4/MOD7 program. (C52, E31, E32). 476680
- two-phase flow**
- Modeling of two-phase flow with thermal and mechanical non-equilibrium. (E31, E32). 466667
- valves**
- Summary and bibliography of operating experience with valves in light-water-reactor nuclear power plants for the period 1965-1978. (E31, E32). 491871
- water chemistry**
- Operational experience of water chemistry at Wuergassen boiling water reactor power station. (E31). 470628
- zircaloy**
- Zircaloy performance in water reactors. (E32, E33). 491905
- BYPASSES:**
- x-ray radiography**
- Roentgenvidensitometric flow measurement in aortocoronary bypass grafts. (C61). 461387
- C CODES:**
- Counting a small number of radioactive atoms, second program. (E41, F51). 485019
- finite element method**
- CASTEM: a system of finite element computer programs for elastic and inelastic analysis of mechanical structures of reactors. (E22). 466607
- reactor operation**
- CICO - code for the description of the axial bidirectional fuel movement. (F51, E23). 495279
- two-phase flow**
- Modeling of two-phase flow with thermal and mechanical non-equilibrium. (E31, E32). 466667
- C-REACTIVE PROTEIN:**
- See GLOBULINS
- CABBAGE:**
- See BRASSICA

CABIBBO ANGLE:

Predictions for the top quark mass and for the generalized Cabibbo angle. (A21). 478487

origin

Speculation on the possible dynamical origin of Cabibbo angle. (A21; SU-3 gauge group, one-loop approximations, pseudo-Goldstone phenomena, Higgs potential). 472029

CABLES (ELECTRIC):

See **ELECTRIC CABLES**

CABLES (STRUCTURAL):

See **MECHANICAL STRUCTURES**

CADARACHE FUEL EL. TESTING R.:

See **PEGASE REACTOR**

CADARACHE RAPSIDIE REACTOR:

See **RAPSIDIE REACTOR**

CADMIUM:**absorption spectroscopy**

Determination of cadmium in sediments by atomic absorption spectrophotometry with a carbon tube atomizer. (B11). 468624

Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397

High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). [Data] 472362

activation analysis

Critical concentrations of cadmium in human liver and kidney measured by prompt-gamma neutron activation. (B11). [Data] 478800

Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428

adsorption

Radionuclide sorption studies on abyssal red clays. (E52). [Data] 480874

atom-molecule collisions

Laser excitation of Cd(¹P₁). Absolute quenching cross sections and branching ratios for the process: Cd(¹P₁) + M → Cd(³Psub(J)) + M. (A12). 483144

biological effects

Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). 466231

biological half-life

Critical concentrations of cadmium in human liver and kidney measured by prompt-gamma neutron activation. (B11). [Data] 478800

chemical reactions

Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). 466231

chemotherapy

Synergistic chelation therapy or mixed ligand complexes for plutonium and cadmium poisoning; and reply. (C21). 473070

chromatography

High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). [Data] 472362

Metal-ion chelation chromatography on silica-immobilized 8-hydroxyquinoline. (B11). [Data] 472357

compressibility

Isothermal compressibility for various liquid metals by harmonic model potential. (B22). 462905

corrosion

Estimate of corrosion state of zinc and cadmium coatings with chromate film on steel. (B15). 469012

Investigation of efficiency of organic inhibitor of corrosion by means of polarography. (B15). 479322

corrosion protection

Relation between adsorption and protective properties of inhibitors during acid corrosion of metals. (B15). 465508

coster-kronig transitions

L₁-L₂/sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region 37 < or = Z < or = 56. (A12). 477730

deuteron reactions

Cross sections for the formation of sup(114m)In and sup(116m)In on bombardment of cadmium by deuterons. (A34). [Data] 478757

differential pac

The effect of lattice vibrations on the pressure dependence of the electric field gradient in cadmium metal. (A13, B22). 483243

electric conductivity

Evidence for the existence of an Einstein-type phonon mode in the resistivity of pure cadmium. (B22). 469171

Resistivity and thermo-electric power of monovalent, divalent, and trivalent liquid metals. (B22). [Data] 462908

electromotive force

Oscillations of thermo-e.m.f. of cadmium on magnetic breakdown. (A13). 492623

emission spectroscopy

Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267

fermi level

An analytic method for calculating stress induced changes in Fermi surfaces. (A13). 471583

fishes

Mercury, arsenic and cadmium in the unfried and fried fish. (B11). [Data] 462642

gamma radiation

Cadmium-capture gamma-ray exposure from personnel dosimeters. (C55, E41). 491241

intestinal absorption

Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). [Data] 466231

ion exchange chromatography

Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263

ion-atom collisions

L₁-L₂/sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region 37 < or = Z < or = 56. (A12). 477730

lattice vibrations

The effect of lattice vibrations on the pressure dependence of the electric field gradient in cadmium metal. (A13, B22). 483243

Temperature-dependent magnetic susceptibility of metallic electrons: Application to cadmium. (B22). 469201

magnetic susceptibility

Temperature-dependent magnetic susceptibility of metallic electrons: Application to cadmium. (B22). 469201

Theory of spin and spin-orbit magnetic susceptibility of cadmium alloys. (A13). 489076

market

Cadmium: The deformed metal. (B21, F10). 465559

meetings

2nd international cadmium conference. (B21, C50). 465555

neutron activation analysis

Determination of Cd in environmental samples by substoichiometric neutron activation analysis. (B11). [Data] 493539

Neutron activation determination of cadmium, indium and zinc in standard samples of rocks. (B11). 490295

Neutron activation analysis of the inorganic ions in Langmuir-Blodgett multilayers. (B11). 478833

Portable system for detecting cadmium in the human liver. (B11). [Data] 468587

neutron reactions

Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166

nuclear reaction yield

Cross sections for the formation of sup(114m)In and sup(116m)In on bombardment of cadmium by deuterons. (A34). [Data] 478757

optical pumping

Laser excitation of Cd(¹P₁). Absolute quenching cross sections and branching ratios for the process: Cd(¹P₁) + M → Cd(³Psub(J)) + M. (A12). 483144

oxidation

Effect of solid phase on electrochemical oxidation of metals from the surface of mercury-graphite electrode. (B12). 478994

p states

Stark interaction in the n s n p z² P₁ levels of zinc and cadmium. (A12). [Data] 481045

production

Cadmium: The deformed metal. (B21, F10). 465559

quantitative chemical analysis

Determination of cadmium in solutions containing uranium, neptunium, and plutonium. (B11, B16). 475877

Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676

small intestine

Cadmium binding components in the supernatant fraction of the small intestinal mucosa of rats administered cadmium. (C45). 473182

solvent extraction

Selective extraction and separation of cadmium using tri-n-octylamine. (B13). [Data] 490466

sputtering

Angular distribution of the kinetic energy re-emitted during ion bombardment. (A13). [Data] 492634

stark effect

Stark effect investigations of excited cadmium, ytterbium, and thulium I-levels using the methods of double resonance and level crossing. (A12). 485511

thermoelectric properties

Resistivity and thermo-electric power of monovalent, divalent, and trivalent liquid metals. (B22). [Data] 462908

toxicity

Cadmium toxicity in the pregnant rat. (C21; /sup 115m/Cd). 461097

Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). 466231

uses

Cadmium: The deformed metal. (B21, F10). 465559

CADMIUM ALLOYS:

See also **CADMIUM BASE ALLOYS**

auger effect

On the Auger effect in narrow gap semiconductors under high magnetic fields. (B22). 476268

band theory

Band structure of Cd₃As₂ from Shubnikov-de Haas and de Haas - van Alphen effects. (B22). 476250

crystal structure

Electronic behavior in alloys: Gold - non-transition-metal intermetallics. (B22). 465649

crystal-phase transformations

The intermetallic system LiCdsub(1-x)Tlsub(x). (A13). [Data] 464122

- Polarographic examination of cadmium complexes with protonated 1,2-or 1,3-propylenediamine. (B12). [Data] 493743
- Polarographic study of the maleic acid and the fumaric acid complexes of lead and cadmium in aqueous medium. (B12). 460466
- Polarographic study of Cd(II)-Schiff base complexes and d.m.e. menthanol-water medium. (B12). 460515
- structural chemical analysis**
- Cadmium(II) complexes with dicyanamide. (B12). 460506
- Fe(II), Co(II), Ni(II), Cu(II), Zn(II), Pd(II), Cd(II), UO_2^{2+} and VO^{2+} complex of O-(2-pyrrolideneimino)benzoic acid and 3-(2-pyrrolideneimino)propionic acid. (B12). 493697
- Spectral studies on cadmium(II) and zinc(II) complexes of octyl-S-thiopropionic acid. (B12). 460542
- CADMIUM COMPOUNDS:**
- See also CADMIUM ARSENIDES; CADMIUM BROMIDES; CADMIUM CHLORIDES; CADMIUM FLUORIDES; CADMIUM HYDROXIDES; CADMIUM IODIDES; CADMIUM NITRATES; CADMIUM OXIDES; CADMIUM PERCHLORATES; CADMIUM PHOSPHATES; CADMIUM PHOSPHIDES; CADMIUM SELENIDES; CADMIUM SULFATES; CADMIUM SULFIDES; CADMIUM TELLURIDES; CADMIUM TUNGSTATES
- absorption spectra**
- Band spectrum and optical absorption of n-CdSnAs₂. (A13). 492646
- absorption spectroscopy**
- Atomic absorption determination of some chalcophilic elements following their extraction concentrating. (B11). 468669
- Determination of cadmium in individual organs and divided shells of sea water clam by atomic absorption spectrometry with a carbon tube atomizer. (B11). 493032
- adsorption**
- Elimination of cadmium ion in waste water by adsorbents. (B12). 475988
- chemical reaction kinetics**
- Investigation into rapid electrochemical reaction kinetics by the method of high-frequency polarography. (B12). 479066
- chemical reactions**
- Investigation of complexing equilibria of some phosphorus containing complexes with cadmium and lead ions by means of polarographic method. (B12). 478992
- chromatography**
- Anion exchange behaviour of elements in orthophosphoric and acid medium. (B11). 493528
- crystal growth**
- Common transport of substances in processes of crystal growing. (B12). 468818
- Conditions for preparation and investigation of some properties of cadmium bromate crystals. (B12). 468684
- crystal lattices**
- EPR of Mn^{2+} in cadmium ammonium selenate hexahydrate tutton salt. (B12). 460527
- diffusion**
- Chronopotentiometric determination of diffusion coefficients of some ions against a background of the $2\text{AlCl}_3\text{-NaCl}$ melt. (B12). 486567
- distribution functions**
- Distribution of cadmium between calcium carbonate and solution, 2. (B12). 490363
- Distribution of cadmium between calcium carbonate and solution, 1. (B12). 481674
- elasticity**
- On the dependence of CdSb elastic constants on hydrostatic pressure. (A13). 467362
- electric fields**
- Temperature dependence of electric field gradients at Cd and Hf sites in cadmium perovskites. (A13). 459784
- electrical properties**
- Investigation of physical properties of compounds of the type $\text{Cd}_3\text{P}_2\text{H}_3$. (B12). 476044
- electrolysis**
- Investigation of behaviour and determination of indium, cadmium, thallium, lead and tin by the method of inversive alternating current voltammetry. (B12). 478961
- electron spin resonance**
- Electron paramagnetic resonance of irradiated dihydrated cadmium chloride. (A13). 471549
- Electron spin resonance studies of Cu^{2+} doped in cadmium maleate dihydrate single crystals. (A13). 467382
- EPR of Mn^{2+} in cadmium ammonium selenate hexahydrate tutton salt. (B12). 460527
- Phase relaxation of Er^{3+} ions in CdMoO_4 monocrystals. (A13). 485614
- entropy**
- Standart entropy of ternary compounds of $\text{A}^2\text{C}_2\text{B}_4$ type. (B12). 476099
- formation heat**
- Thermochemical investigation of the second group element vanadates. (B12). 493631
- gyromagnetic ratio**
- Electronic g-factor in Cd_3As_2 . (B12). 476103
- ion exchange**
- Sorption of rare and scattered elements on natural high siliceous zeolites. (B12). 478919
- magnetization**
- TmCd quadrupolar ordering and magnetic interactions. (B22). 468661
- manganese ions**
- EPR of Mn^{2+} in some pyrovanadates. (A13). 477892
- neutron activation analysis**
- A transportable system for the measurement of liver cadmium in vivo. (B11, E41). [Data] 472390
- physical radiation effects**
- Bleaching and annealing experiments of the (Cl_2^-) center in irradiated cadmium chloride. (B25). 494165
- polarography**
- Determination of copper, lead, cadmium and zinc microquantities in aqueous wastes containing chromate ions by the method of inversive voltammetry on mercury-graphite electrode. (B11). 478790
- Effect of diantipyryl methane derivatives on polarographic behaviour of cadmium ions. (B12). 478996
- Polarographic determination of Pb, Cd, Fe, Ni and Zn in copper metallurgy wastes after preliminary concentration. (B11). 490285
- Polarographic investigation of cadmium ion discharge during adsorption of compounds containing ester group. (B12). 478979
- Studying cadmium reduction kinetics in trilonate-pyrophosphate electrolyte by polarographic method. (B12). 479053
- potentiometry**
- Potentiometric titration of zinc and cadmium in electrolytes of in galvanic baths. (B11). 493509
- quadrupole moments**
- TmCd quadrupolar ordering and magnetic interactions. (B22). 468661
- quantitative chemical analysis**
- Chronopotentiometry. (B11). 493544
- reduction**
- Effect of α -naphthol on kinetics of electrolytic reduction of $\text{Cu}(2)$, $\text{V}(3)$, Cd^{2+} and Cr^{3+} cations at high degrees of electrode coating. (B12). 478978
- Estimation of accidental errors influence on the parameters value characterizing electrochemical reaction rate in the presence of surfactants. (B12). 486588
- Investigation of efficiency of organic inhibitor of corrosion by means of polarography. (B15). 479322
- separation processes**
- Separation of copper (2) and cadmium (2) in the form of ethylene diamine complexes on hydrated zirconium dioxide. (B12). 493746
- solvent extraction**
- Extraction capacity of caproic acid solutions with amines. (B11; extraction of cadmium cations). 493530
- spectrophotometry**
- Investigation into conditions of spectrophotometric determination of sum of heavy metals in rubidium and cesium salts with preliminary crystallization concentrating. (B11). 493480
- CADMIUM FLUORIDES:**
- americium additions**
- Radiation-induced ^{237}Np charge states from $^{241}\text{Am} - \text{CaF}_2$. (B14). 468953
- crystal lattices**
- Crystal structures of zinc and cadmium hydroxyfluorides. (B12). 465423
- electroluminescence**
- Electroluminescence in pure CdF_2 . (B12). 476048
- electron spin resonance**
- The dependence of the SHF line-width on the fine structure transitions for $\text{CdF}_2\text{:Gd}^{3+}$. (A13). 477879
- electronic structure**
- Determination of the CdF_2 valence band structure by photoemission measurement. (A13). 474860
- gadolinium ions**
- The dependence of the SHF line-width on the fine structure transitions for $\text{CdF}_2\text{:Gd}^{3+}$. (A13). 477879
- ESR of Gd^{3+} in distorted sites by charge compensation in AMF_3 crystals: a) n.n M vacancy and O^{2-} substituted for n.n F⁻ b) Sensitivity of the $\text{Gd}^{3+}\text{O}^{2-}$ pair to the structural phase changes of RbCaF_3 . (A13). 477858
- CADMIUM HYDROXIDES:**
- coprecipitation**
- Regularities of heterovalent impurity distribution between cadmium hydroxide deposit and solution. (B13). 476128
- crystal lattices**
- Crystal structures of zinc and cadmium hydroxyfluorides. (B12). 465423
- CADMIUM IODIDES:**
- chemical preparation**
- Preparation and investigation into properties and structure of the $\text{Cd}_4\text{P}_2\text{GITA}_3$ ($\text{GITA} = \text{Cl, Br, I}$) type compounds. (B12). 490392
- phase diagrams**
- Mutual system of bromides and iodides of sodium, cadmium and lead. (B12). 493654
- Systems of $\text{Rb}_2\text{I}_2\text{-CdI}_2\text{-PbI}_2$ and $\text{Cs}_2\text{I}_2\text{-CdI}_2\text{-PbI}_2$. (B12). 493739
- solubility**
- Solubility of cadmium and mercury iodides in pyridine. (B12). 476080
- trapping**
- Study of capture levels in CdI_2 monocrystals. (A13). 492658
- CADMIUM IONS:**
- color centers**
- Electron spin resonance of Cd^+ centers in irradiated vitreous sodium borates. (A13). 462164
- energy-level density**
- Relative yields of ground-state and excited-state ions of Zn, Cd and Hg in thermal-energy charge-transfer reactions of He^+ ions. (A12). [Data] 471359
- CADMIUM ISOTOPES:**
- See also CADMIUM 104; CADMIUM 105; CADMIUM 107; CADMIUM 109; CADMIUM 110; CADMIUM 111; CADMIUM 112; CADMIUM 114; CADMIUM 115; CADMIUM 116; CADMIUM 119; CADMIUM 121

- neutron reactions**
Optical model with channel coupling and neutron inelastic scattering in the 3-p resonance range. (A33). 493203
- neutron-deficient isotopes**
A description of odd neutron-deficient cadmium isotopes within the rotor-plus-particle model using self-consistent core single-particle states. (A33). 483781
- CADMIUM NITRATES:**
- aqueous solutions**
System of $\text{CdCl}_2\text{-Cd}(\text{NO}_3)_2\text{-H}_2\text{O}$ at 25 deg C. (B12). 475968
- electric conductivity**
Electric conductivity of diluted aqueous solutions of cadmium salts at 25-80 deg. (B12). 465307
- quantitative chemical analysis**
Copper separation using modified active carbon before the polarographic determination of Pb, Cd, Ni, Zn and Fe in wastes. (B11). [Data] 490309
- CADMIUM OXIDES:**
- chemical preparation**
New compounds with pyrochlore structure in systems containing AlNbO_4 , GaNbO_4 , $\text{SbNb}(\text{Ta})\text{O}_4$. (B12); New compounds: PbAlTiNbO_6 , PbSbBTaO_7 , CdSbBTaO_7 (B-Ti, Sn, Zr, Hf). 478908
- Synthesis and thermal stability of isostructural cubic mixed oxides $\text{Msub}(x)\text{Psub}(3)\text{Osub}(4)$ and $\text{Msub}(x)\text{Pdsub}(3)\text{Osub}(4)$ (M being a metal of the 1 and 2 groups, cobalt or nickel). (B12). 490373
- hydration**
Effect of cadmium oxide hydration condition on electrochemical properties of cadmium electrodes. (B12). 465335
- phase diagrams**
Investigation into reaction in the systems formed by calcium molybdate and zinc, cadmium and lead oxides and molybdates. (B12). 478969
- sputtering**
Cd-Sn oxide films by dc reactive sputtering as transparent electrodes. (A13). 462217
- CADMIUM PERCHLORATES:**
- infrared spectra**
IR-spectra of thiocarbamide complexes of cadmium and rare earth perchlorates. (B12). [Data] 493556
- CADMIUM PHOSPHATES:**
- monoclinic lattices**
Structure of cadmium ultraphosphate $\text{Cd}_2\text{P}_4\text{O}_{17}$ crystals. Structural motives of phosphorus-oxygen anions in ultraphosphates. (B12). 486562
- CADMIUM PHOSPHIDES:**
- chemical preparation**
Preparation and investigation into properties and structure of the $\text{Cd}_3\text{P}_2\text{GITA}_3$ (GITA = Cl, Br, I) type compounds. (B12). 490392
- crystal defects**
The influence of crystal defects on the properties of $\text{A}^2\text{B}^4\text{C}_2^4$ compounds. (A13). 489045
- crystal growth**
Growing of CdP_3 monocystals. (B12). 476020
- d states**
On the role of d-state metal in forming the valence band of cadmium phosphides. (B12). 465299
- electronic structure**
Energy band structure of Cd_3P_2 for real $\text{Dsub}(4h)\text{sup}(15)$ symmetry. 1. (B12). 476053
- photoluminescence**
Polarization of radiative transitions on deep centres in p- CdSnP_2 crystals. (A13). 477911
- photosensitivity**
The photosensitivity of diodes based on $\text{CdGeP}_2\text{:In}$ crystals. (B12). 462718
- specific heat**
Determination of CdP_3 thermodynamic functions at low temperatures. (B12). 475937
- CADMIUM SELENIDES:**
- absorption spectra**
Magnetic dichroism in CdCr_2Se_4 thin films. (A13). 485588
- activation energy**
Temperature dependence of the optical ionization energy of deep local levels in CdSe single crystals. (B22). 481792
- band theory**
Valent band structure in CdGa_2Se_4 . (A13). 492648
- crystal growth**
Growth of filamentary CdSe crystals in the hydrogen atmosphere. (B21). 465544
- Kinetics of growth and crystal structure of cadmium selenide films during vacuum condensation. (B12). 493621
- electric conductivity**
Effect of vacuum heat treatment on electric properties of pure and doped CdCr_2Se_4 monocystals. (B22); Crystal doping with In, Ga, Ag additions). 465603
- electric fields**
Current noise in cadmium selenide caused by thermofield emission. (A13). 485587
- electron mobility**
Transport properties of $\text{Cdsub}(v)\text{Hgsub}(1-v)\text{Se}$ crystals. (B12). [Data] 481693
- electronic structure**
Band parameters of CdS and CdSe single crystals determined from optical exciton spectra. (A13). 474914
- evaporation**
Fundamentals of evaporation and condensation phenomena. (B24). 486999
- faraday effect**
Magnetic dichroism in CdCr_2Se_4 thin films. (A13). 485588
- hall effect**
Transport properties of $\text{Cdsub}(v)\text{Hgsub}(1-v)\text{Se}$ crystals. (B12). [Data] 481693
- lattice parameters**
X-ray study of $\text{CdGasub}(2(1-x))\text{Insub}(2x)\text{Sesub}(4)$ solid solutions. (A13). 489030
- monocrystals**
Transplantation of atoms in monocystals of A^2B^4 type compounds. (B12). 468708
- n-type conductors**
Preparation of monocystals of CdCr_2Se_4 , magnetic semiconductor. (B22, B21). 465626
- noise**
Current noise in cadmium selenide caused by thermofield emission. (A13). 485587
- nucleation**
Nature of nucleation centres of a new phase on Ge, Si, GaAs substrates. (B12). 465363
- p-n junctions**
 ZnTe-CdSe thin film heterotransitions. (A13). 489053
- phase diagrams**
Investigation into interaction in the systems of $\text{CdB}^4\text{-A}^2\text{B}_3^4(\text{B}^6\text{-S, Se; A}^2\text{-Sb, Bi})$. (B12). 476041
- Structure of the phase equilibrium diagram of the Cd-Ga-Se system. (B12). 468885
- Study of the state diagrams of $\text{A}^2\text{-B}_3\text{-C}^4$ ternary systems. (B12). 490337
- phase studies**
Synthesis of chalcogenide phases of complicated composition from aqueous solutions. (B12). 468825
- photoconductivity**
Impurity band in In-doped CdCr_2Se_4 observed in the spectral dependence of the photoconductance. (B23, A17). 469391
- photoionization**
Temperature dependence of the optical ionization energy of deep local levels in CdSe single crystals. (B22). 481792
- photoluminescence**
The effect of high-energy electron irradiation on the edge emission in CdSe. (B25). 494138
- platinum**
Total current spectroscopy of thin layers of cadmium selenides. (A13). 492651
- surface coating**
Total current spectroscopy of thin layers of cadmium selenides. (A13). 492651
- tunnel effect**
Phonon-assisted tunneling in HgCdTe -insulator-metal and HgCdSe -insulator-metal junctions. (A17). 475484
- x-ray diffraction**
X-ray investigation of needle-like crystals of CdIn_2Se_4 . (B24). 465711
- CADMIUM SULFATES:**
- crystal structure**
Study of the phase transition in the $(\text{NH}_4)_2\text{Cd}_2(\text{SO}_4)_3$. (A13). 471465
- crystals**
Study of the phase transition in the $(\text{NH}_4)_2\text{Cd}_2(\text{SO}_4)_3$. (A13). 471465
- electric conductivity**
Electric conductivity of diluted aqueous solutions of cadmium salts at 25-80 deg. (B12). 465307
- manganese ions**
Luminescence and dynamic behaviour of the improper ferroelectric crystal $\text{CAS: Mn}^{2+}, \text{UO}_2^{2+}$. (A12). 459755
- polarization**
Polarization curves of solutions of high cadmium concentration. (B12). 493747
- solubility**
Study of solubility of some transition element salts in aqueous-ammoniacal medium. (B12). 478993
- uranium dioxide**
Luminescence and dynamic behaviour of the improper ferroelectric crystal $\text{CAS: Mn}^{2+}, \text{UO}_2^{2+}$. (A12). 459755
- CADMIUM SULFIDES:**
- chemical preparation**
Conditions of preparation and properties of chemically precipitated CdS layers. (B12). 468844
- chemical reaction kinetics**
Mechanism and kinetics of preparation of cadmium sulfide narrow-dispersed powder in the presence of molten cadmium halogenides. (B12). 468771
- crystal defects**
"Self-healing" of radiation induced damages in CdS monocystals at high doses of fast neutrons. (A13). 474759
- The defects in crystals of some semiconductor compounds with spinel structure. (B12). 490375
- crystal growth**
Growing of cadmium sulfide monocystals with prescribed properties from vapor phase. (B12). 468741
- Mechanism, growth kinetics and morphology of CdS crystals. (B23, B12). 469373
- Peculiarities of cadmium sulfide synthesis in hydrothermal solutions. (B12). 468840
- electric conductivity**
Relaxation of the electron pulse induced conductivity in thin layers of cadmium sulfide. (B25). [Data] 479549
- electrolysis**
Electrolysis of sulfides in molten salts. (B12). 468886
- electron spin resonance**
ESR study of oxygen radicals formed in cadmium sulphide. (B12). 481692

- Paramagnetic resonance in ferromagnetic spinel CdCr_2S_4 with cation and anion substitutions. (A13). 467458
- electronic structure**
- Band parameters of CdS and CdSe single crystals determined from optical exciton spectra. (A13). 474914
- emission spectra**
- Biexcitons, impurity transitions, and electron-hole plasma in highly excited II-VI compounds. (A13). 462234
- evaporation**
- Fundamentals of evaporation and condensation phenomena. (B24). 486999
- excitons**
- Direct excitons in cadmium thiogallate. (A13). 485571
- Effect of inelastic biexciton-biexciton collisions on the process of biexciton radiative recombination. (A13). 474877
- Exciton absorption in CdS:Cl . (A13). 464143
- Exciton reflection spectra of CdS crystals activated with nickel impurities. (A13). 464154
- Influence of electron radiation and gas adsorption on the optical properties of CdS in the exciton region. (A13). 464227
- ferromagnetic resonance**
- Ferromagnetic resonance in CdCr_2S_4 crystals doped with silver. (A13). 467446
- grain boundaries**
- On the form of potential barrier on grain boundaries of cadmium sulfide films chemically precipitated from aqueous solution. (B12). 468835
- holes**
- Linear optical response of highly excited semiconductors. (B12). 476033
- infrared spectra**
- Features of reconstruction of the vibration spectrum in the $\text{Cdsub}(x)\text{Znsub}(1-x)\text{S}$ solid solution system. (A13). 467479
- lithium ions**
- Study on lithium site in cadmium sulfide lattice. (A13). 492625
- microhardness**
- Photomechanical and photoelastic effects in near-surface layer of CdS crystals. (A13). 485642
- monocrystals**
- Transplantation of atoms in monocrystals of A^2B^4 type compounds. (B12). 468708
- oxidation**
- Electrochemical oxidation of sulfides in sulfuric-acid solutions. (B12). 468765
- phase diagrams**
- Investigation into interaction in the systems of $\text{CdB}^4\text{-A}_2\text{B}_3^4(\text{B}^4\text{-S, Se; A}^2\text{-Sb, Bi})$. (B12). 476041
- phase studies**
- Change of phase composition of cadmium sulfide films chemically precipitated from solutions during annealing in air. (B12). 484040
- Synthesis of chalcogenide phases of complicated composition from aqueous solutions. (B12). 468825
- photoconductivity**
- On the mechanism of optical damping of residual conductivity in activated cadmium sulfide. (A13). 485627
- Photoconductivity and trap distribution in CdIn_2S_4 . (B12). 462688
- photoluminescence**
- Threshold reversible rearrangement of CdS emission spectrum under the action of uniaxial compression. (A13). 467405
- physical radiation effects**
- "Self-healing" of radiation induced damages in CdS monocrystals at high doses of fast neutrons. (A13). 474759
- Creation of bi-excitations in CdS by bombardments of MeV heavy charged particles. (A13). [Data] 489028
- piezoelectricity**
- Frequency dependence of even acousto-current of Lamb waves in CdS . (A13). 492589
- reflection**
- A quantitative study of excitonic polariton reflectance in CdS . (A13). [Data] 462168
- relaxation**
- Relaxation of the electron pulse induced conductivity in thin layers of cadmium sulfide. (B25). [Data] 479549
- solid solutions**
- Kinetics of equimolar solid solution formation in the ZnS-CdS system. (B12). 493583
- spin-lattice relaxation**
- On the angular dependence of spin-lattice relaxation of CdS:Mn^{2+} . (A13). 467376
- On the temperature dependence of spin-lattice relaxation in CdS:Mn^{2+} . (A13). 467377
- superconducting composites**
- A granular photo-superconductor. (A17, A13). 489680
- surface coating**
- Slow electron mean free path in CdS thin films. (A13). 485608
- thermoluminescence**
- Study on ionization mechanism of capture centers by an electric field in CdS-Ag phosphors. (A13). 477902
- traps**
- Infrared stimulation method for investigating trapping levels in CdS doped with copper. (A13). 474740
- Study on ionization mechanism of capture centers by an electric field in CdS-Ag phosphors. (A13). 477902
- CADMIUM TELLURIDE DETECTORS:**
See CDTM SEMICONDUCTOR DETECTORS
- CADMIUM TELLURIDES:**
- absorption**
- Kinetics of the intraband absorption and magnetoabsorption coefficients in mixed semiconductors with composition fluctuations. (B22). 462871
- annealing**
- Annealing of $\text{Cdsub}(0.2)\text{Hgsub}(0.8)\text{Te}$ in mercury vapor. (B12). 468721
- crystal growth**
- Growing of homogeneously mixed crystals with a great segregation tendency by means of the Bridgman method taking the pseudobinary system $\text{Cdsub}(x)\text{Hgsub}(1-x)\text{Te}$ as an example. (B21). 469045
- Solid-state gamma-ray detectors from cadmium telluride. (E41). 477404
- crystal structure**
- Properties of epitaxial CdTe films. (A13). 467480
- electric conductivity**
- Capacitance of cadmium telluride Schottky diodes. (E41). 482851
- Properties of epitaxial CdTe films. (A13). 467480
- electromotive force**
- Photomagnetolectric effect in strongly excited $\text{Cdsub}(x)\text{Hgsub}(1-x)\text{Te}$. (B22). 465650
- epitaxy**
- Epitaxial growth of CdTe films. (B12, B22). 468883
- Structure of CdTe films grown in a quasi-closed volume. (B22). 494006
- evaporation**
- Fundamentals of evaporation and condensation phenomena. (B24). 486999
- gamma detection**
- Radiation effect on CdTe crystals and γ -ray detectors. (B25, E43). 494169
- holography**
- Dynamic gratings in cadmium telluride. (B22). 465611
- kinetics**
- Kinetics of the intraband absorption and magnetoabsorption coefficients in mixed semiconductors with composition fluctuations. (B22). 462871
- luminescence**
- Evidence of a defect associated with chlorine in electron-bombarded CdTe . (B25). 494141
- Radiation effects and the control of optoelectronic properties in II-VI compound semiconductors. (B25). 494110
- magneto-optical effects**
- Magneto-optical investigations and double optical-magnetic resonance in A^2B^4 semiconductors doped with iron group ions. (A13). 477903
- magneto-thermal effects**
- Photomagnetolectric effect in strongly excited $\text{Cdsub}(x)\text{Hgsub}(1-x)\text{Te}$. (B22). 465650
- optical properties**
- Optical properties of CdTe crystals doped with V and Cr impurities. (A13). 474700
- p-n junctions**
- P-n junctions on the basis of cadmium tellurides. (A13). 489011
- phase diagrams**
- CdTe-ZnS system. (B22). 484267
- Ternary mutual $\text{CdTe} + \text{ZnS}$ reversible $\text{CdS} + \text{ZnTe}$ system. (B22, B12). 465661
- photoelasticity**
- Negative and positive photoelastic effect in CdTe . (B12). 475958
- photoionization**
- Acceptor photoionization and light-to heavy hole absorption in $\text{Cdsub}(1-x)\text{Mnsub}(x)\text{Te}$. (B12). [Data] 476105
- physical radiation effects**
- Evidence of a defect associated with chlorine in electron-bombarded CdTe . (B25). 494141
- High temperature defects in electron irradiated semiconductors HgCdTe , PbSnTe . (B25, E43). 481911
- Radiation effect on CdTe crystals and γ -ray detectors. (B25, E43). 494169
- plasticity**
- Negative and positive photoelastic effect in CdTe . (B12). 475958
- purification**
- Effectivity of CdTe purification by extraction method. (B21, B22). 462837
- surface treatments**
- Study of CdTe surface by SIMS and RBS ellipsometry. (E41). 482860
- thermoelectricity**
- Thermal electromotive force of $\text{n-Cdsub}(x)\text{Hgsub}(1-x)$ in a transverse quantizing magnetic field. (A13). 464149
- tunnel effect**
- Phonon-assisted tunneling in HgCdTe -insulator-metal and HgCdSe -insulator-metal junctions. (A17). 475484
- CADMIUM TUNGSTATES:**
- chemical preparation**
- On interaction of cadmium nitrate with sodium tungstate in solutions of various acidity. (B12). 493691
- CADMIUM 104:**
- high spin states**
- High-spin states in ^{104}Cd , ^{105}Cd . (A34). [Data] 483876
- CADMIUM 105:**
- high spin states**
- High-spin states in ^{104}Cd , ^{105}Cd . (A34). [Data] 483876
- CADMIUM 106 TARGET:**
- carbon 12 reactions**
- In-beam study of ^{116}Xe . (A34). 472288
- CADMIUM 107:**
- differential pac**
- On the role of combined static hyperfine interactions for the interpretation of in-beam nuclear Larmor-precession measurements. (A13). 467460

- hyperfine structure**
Temperature dependence of the electric field gradient of Cd in Hg. (A13). 489019
- larmor precession**
On the role of combined static hyperfine interactions for the interpretation of in-beam nuclear Larmor-precession measurements. (A13). 467460
- CADMIUM 108 TARGET:**
- helium 3 reactions**
Experimental study of the ^{109}In nuclear states. (A34). 472304
- q-value**
Experimental study of the ^{109}In nuclear states. (A34). 472304
- CADMIUM 109:**
- beta decay**
Determination of relative intensities of 87.7 keV conversion lines of ^{109}Ag E3-transitions with the sources of differential chemical composition. (A34). 493387
- calcium**
The effect of dietary calcium and vitamin D₃ on the duodenal cadmium transport in the rat. (C45). [Data] 482181
- calibration**
Tritium monitoring with a scintillation chamber. (B11). [Data] 490279
- cholecalciferol**
The effect of dietary calcium and vitamin D₃ on the duodenal cadmium transport in the rat. (C45). [Data] 482181
- differential pac**
On the role of combined static hyperfine interactions for the interpretation of in-beam nuclear Larmor-precession measurements. (A13). 467460
- energy-level density**
Neutron spectra from the $^{109}\text{Ag}(p, n)^{109}\text{Cd}$ reaction at the proton energies E_{sup}(p)=6 and 7 MeV. (A34). 465178
- e3-transitions**
Double K-shell vacancy creation in the decay of ^{109}Pd and ^{109}Cd . (A34). 475855
- k capture**
Double K-shell vacancy creation in the decay of ^{109}Pd and ^{109}Cd . (A34). 475855
- larmor precession**
On the role of combined static hyperfine interactions for the interpretation of in-beam nuclear Larmor-precession measurements. (A13). 467460
- metabolism**
Transfer of ^{109}Cd in the mother's body to the suckling infant mice through the milk and its distribution in their whole bodies. (C45). 482186
- mice**
Factors influencing absorption and retention of oral ^{109}Cd in mice: Age, pretreatment and subsequent treatment with non-radioactive cadmium. (C21). 494330
- milk**
Transfer of ^{109}Cd in the mother's body to the suckling infant mice through the milk and its distribution in their whole bodies. (C45). 482186
- retention**
Factors influencing absorption and retention of oral ^{109}Cd in mice: Age, pretreatment and subsequent treatment with non-radioactive cadmium. (C21). 494330
- tracer techniques**
Cadmium binding components in the supernatant fraction of the small intestinal mucosa of rats administered cadmium. (C45). 473182
- x-ray sources**
Quantitative determination of bromine-labelled organic compounds by XRF. (B11). 483992
- CADMIUM 110:**
- band theory**
A possible semimicroscopic mechanism to generate two 0⁺ bands and their band mixing; ^{110}Cd as an example. (A33). 472196
- cluster model**
A possible semimicroscopic mechanism to generate two 0⁺ bands and their band mixing; ^{110}Cd as an example. (A33). 472196
- isobaric analogs**
Neutron spectra from decay of isobar-analog resonances in the $^{109}\text{Ag}(p, n)^{109}\text{Cd}$ and $^{113}\text{In}(p, n)^{113}\text{Sn}$ reactions. (A34). 493432
- nuclear radii**
The difference in nuclear charge radius between sup(110, 112, 114, 116)Cd. (A33). [Data] 468303
- vibrational states**
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- CADMIUM 110 TARGET:**
- lithium 6 reactions**
High-spin states in odd-mass /sup 113en-dash119/Sb: ΔJ = 1 bands on 9/2⁺ proton-hole states. (A34). 478769
- nitrogen 14 reactions**
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- oxygen 16 reactions**
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- proton reactions**
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- CADMIUM 111:**
- differential pac**
The effect of lattice vibrations on the pressure dependence of the electric field gradient in cadmium metal. (A13, B22). 483243
- The electric field gradient at cadmium impurities in yttrium metal. (A13, B22). 483249
- Nuclear quadrupole relaxation in solid Cu host doped with Rh. (A13). 488949
- Perturbed γ-γ angular correlations of sup(111m)Cd bound on DNA. (C11). 490935
- hyperfine structure**
The effect of lattice vibrations on the pressure dependence of the electric field gradient in cadmium metal. (A13, B22). 483243
- The electric field gradient at cadmium impurities in yttrium metal. (A13, B22). 483249
- Quadrupole interaction at ^{111}Cd nuclei in single-crystalline thallium. (A13, B22). 483255
- integral pac**
Perturbed γ-γ angular correlations of sup(111m)Cd bound on DNA. (C11). 490935
- perturbed angular correlation**
Application of perturbed angular correlations to chemistry and related areas of solid state physics. (A13). 471537
- Quadrupole interaction at ^{111}Cd nuclei in single-crystalline thallium. (A13, B22). 483255
- quadrupole moments**
Nuclear quadrupole relaxation in solid Cu host doped with Rh. (A13). 488949
- CADMIUM 111 TARGET:**
- excitation**
Excitation of the ^{113}In , ^{113}In and ^{111}Cd by action of photonless annihilation of positrons. (A34, A33). 493463
- positron reactions**
Excitation of the ^{113}In , ^{113}In and ^{111}Cd by action of photonless annihilation of positrons. (A34, A33). 493463
- proton reactions**
Excitation functions and isomeric relations for the sup(111)Cd(p,n)sup(111mg)In and sup(113)Cd(p,n)sup(113m)In reactions. (A34). 493450
- CADMIUM 112:**
- energy levels**
E0 and E2 decay of low-lying 0⁺ states in the even-even nuclei ^{208}Pb , ^{208}Po , $^{112-120}\text{Sn}$ and $^{112-114}\text{Cd}$. (A34). 478738
- e0-transitions**
The O₁ → O⁺ electric monopole transition in ^{112}Cd . (A34). [Data] 472251
- nuclear radii**
The difference in nuclear charge radius between sup(110, 112, 114, 116)Cd. (A33). [Data] 468303
- CADMIUM 112 TARGET:**
- lithium 6 reactions**
High-spin states in odd-mass /sup 113en-dash119/Sb: ΔJ = 1 bands on 9/2⁺ proton-hole states. (A34). 478769
- nitrogen 14 reactions**
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- CADMIUM 113 TARGET:**
- argon 40 reactions**
Study on ^{147}Dy and ^{199}Po charge states being the products of full fusion nuclear reactions. (A34). 478770
- Study on charge states of ^{147}Dy and ^{199}Po produced in nuclear reactions of full fusion. (A34). 486456
- proton reactions**
Excitation functions and isomeric relations for the sup(111)Cd(p,n)sup(111mg)In and sup(113)Cd(p,n)sup(113m)In reactions. (A34). 493450
- Neutron spectra from (p,n) reactions on ^{113}Cd , ^{113}In . (A34). [Data] 481536
- CADMIUM 114:**
- energy levels**
E0 and E2 decay of low-lying 0⁺ states in the even-even nuclei ^{208}Pb , ^{208}Po , $^{112-120}\text{Sn}$ and $^{112-114}\text{Cd}$. (A34). 478738
- internal conversion**
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236
- nuclear radii**
The difference in nuclear charge radius between sup(110, 112, 114, 116)Cd. (A33). [Data] 468303
- vibrational states**
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- CADMIUM 114 TARGET:**
- lithium 6 reactions**
High-spin states in odd-mass /sup 113en-dash119/Sb: ΔJ = 1 bands on 9/2⁺ proton-hole states. (A34). 478769
- nitrogen 14 reactions**
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- proton reactions**
Reaction $^{114}\text{Cd}(p,p')$ by use of polarized protons and proton-γ angular correlations. (A34). 490234
- Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- CADMIUM 115:**
- angular correlation**
Beta-gamma angular correlation studies on ^{72}Ga , ^{149}Pm and ^{115}Cd isotopes. (A34). 468560
- distribution**
Cadmium toxicity in the pregnant rat. (C21; /sup 115m/Cd). 461097

- fission yield**
Possible viscosity effects in neutron-induced fission of ^{232}Th and ^{238}U . (A34; Yields). [Data] 490166
- gamma cascades**
Beta-gamma angular correlation studies on ^{72}Ga , ^{149}Pm and ^{115}Cd isotopes. (A34). 468560
- intestinal absorption**
Absorption of cadmium in the newborn and juvenile guinea pig. (C21; /sup 115m/Cd, rats). 461106
- CADMIUM 116:**
- nuclear radii**
The difference in nuclear charge radius between sup(110, 112, 114, 116)Cd. (A33). [Data] 468303
- vibrational states**
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- CADMIUM 116 TARGET:**
- deuteron reactions**
Isomeric ratios in deuteron reactions on sup(92,94)Mo and ^{116}Cd nuclei. (A33). 493244
- lithium 6 reactions**
High-spin states in odd-mass /sup 113en-dash119/Sb: $\Delta J = 1$ bands on 9/2+ proton-hole states. (A34). 478769
- proton reactions**
Systematic nuclear-structure dependence of analyzing powers for (p,t) reactions on medium-mass vibrational nuclei. (A34). 468580
- Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- CADMIUM 119:**
- energy levels**
Nuclear data sheets for A=119. (A33). 478601
- energy-level transitions**
Nuclear data sheets for A=119. (A33). 478601
- CADMIUM 121:**
- nuclear structure**
Nuclear data sheets for A=121. (A34). 486465
- CAESIUM:**
See CESIUM
- CAFFEINE:**
- biological effects**
Assessing chemical mutagens: the risk to humans. (C11). 487172
- Measurement of mutagenesis in mammalian cells. (C11; X radiation, caffeine, MNNG). 472925
- chromosomal aberrations**
Increasing effect of caffeine, actinomycin D, and hyperthermia on the yield of radiation induced chromosomal aberrations at different stages of mitotic cycle of man cells. (C11). 479779
- mutagenesis**
Effect of caffeine on ultraviolet mutagenesis in V79 Chinese hamster cells. (C11). 472923
- radiation protection**
Caffeine protection of mammalian cells from reproductive death in case of irradiation. (C11). 479770
- radiosensitivity**
Action of caffeine on x-irradiated HeLa cells. III. enhancement of x-ray-induced killing during G₂ arrest. (C11). 460953
- Effects of caffeine on the expression of potentially lethal and sublethal damage in γ -irradiated cultured mammalian cells. (C11; Human T-1 cells and Chinese hamster V79-79 cells). [Data] 490932
- New approach to the analysis of survival data. (C11; Definition of parameters determined from data without regard to any assumed mechanism of action). 472924
- response modifying factors**
Modification of chromosomal radiation damage as a function of time of caffeine exposure. (C13). 463080
- Modification of radiation-induced chromosomal lesions by caffeine in *Crepis capillaris* L. and *Vicia faba* L. (C13). 465949
- CALANDRIAS:**
- cooling**
Calandria cooling structure in pressure tube reactor. (E34). 470727
- heavy water**
Pressure tube reactor. (E34). 477271
- leaks**
Physics safety analyses for plugging of a calandria tube in CIRUS reactor. (C52). 482230
- reactor safety**
Physics safety analyses for plugging of a calandria tube in CIRUS reactor. (C52). 482230
- tensile properties**
Mechanical properties of surveillance specimens of calandria tubes of A-1 reactor heavy water vessel. (E34). [Data] 463662
- CALCINATION:**
- flowsheets**
Fluidized-bed calcination of LWR fuel-reprocessing HLLW: requirements and potential for off-gas cleanup. (E51). 480853
- high-level radioactive wastes**
Applied laboratory research of high-level waste denitration and calcination technologies. (E51). 463773
- CALCITE:**
- isotope separation**
A model for isotope fractionation during anorganic line precipitation in a small river north of Goettingen. (B12, B32). 468875
- precipitation**
Relationship between ^{13}C and ^{18}O fractionation and changes in major element composition in a recent calcite-depositing spring - a model of chemical variations with inorganic CaCO_3 precipitation. (B31). 469531
- thermoluminescence**
Experimental study of the radiation temperature effect on thermoluminescence accumulation kinetics in minerals. (A13). 492669
- water**
D/H ratios in speleothem fluid inclusions: a guide to variations in the isotopic composition of meteoric precipitation. (B32). 469538
- CALCITONIN:**
- carcinomas**
Increased serum calcitonin in patients with mammary carcinoma. (C61). 470054
- Parathyroid hormone and calcitonin in serum of patients with mammary carcinoma. (C62). 470152
- iodination**
Micro-electrolytic iodination of polypeptide hormones. (B13). 484086
- radioimmunoassay**
Calcitonin radioimmunoassay. Clinical application. (C45, C62). 487373
- Differential diagnosis of hypercalcemia by measurement of parathyroid hormone, calcitonin, and 25-hydroxy-vitamin D. (C62). 470137
- Parathyroid hormone and calcitonin in serum of patients with mammary carcinoma. (C62). 470152
- Reduced-volume radioimmunoassays for parathyrin and calcitonin in serum, for use in pediatric and small-animal studies. (C62; Rats, ^{125}I tracer technique). 470103
- CALCIUM:**
- absorption spectroscopy**
Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- activation analysis**
In vivo analysis of bone calcium by local neutron activation of the hand: results in normal and osteoporotic subjects. (B11, C62, C15). [Data] 472368
- Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- Variation in the bone calcium concentration as a function of age and sex, studied by local neutron activation in vivo. (B11). 483987
- adsorption**
Ion-exchange equilibria between montmorillonite and solutions of moderate-to-high ionic strength. (E52; Sodium and calcium forms of montmorillonite). [Data] 480897
- argon 40 reactions**
Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187
- biological effects**
 ^{226}Ra , ^{210}Pb , ^{210}Po , and calcium in the eyes of long-term radium cases. (C21). [Data] 479942
- Nature of transforming deoxyribonucleic acid in calcium-treated *Escherichia coli*. (C12). 487198
- chemical composition**
Calcium isotopic anomalies and the lack of aluminum-26 in an unusual Allende inclusion. (A15). 481282
- chemical reactions**
Cyclopeptide alkaloids. Synthesis of the ring system and its ion affinity. (B12). 460487
- Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). 466231
- chromatography**
Chromatography of metal ions with a triazine chelating resin. (B11). 486556
- compiled data**
Radiochemical determination of ^{226}Ra in bone: a preliminary analysis of results. (C21, B11). [Data] 479957
- cosmochemistry**
Calcium abundance of RR Lyrae variables in ω Centauri and M22. (A15). 475342
- deposition**
Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of /sup 99m/Tc-pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calcification at these sites). 470174
- emission spectroscopy**
Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
- Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). [Data] 490812
- intestinal absorption**
Observations on intestinal secretions of calcium by strontium-85 in normal Indian subjects and patients of nutritional osteomalacia. (C62). 482417
- ion exchange**
Unusual selectivities of stannic arsenate layers in DMSO-HCl systems: separation of zirconium from numerous metal ions. (B11). 465272
- ion-atom collisions**
Investigation of the spontaneous ionisation mechanisms in slow collisions of He^+ with Ca and Ba, and of Ne^+ with Ba. (A12). 477760
- k absorption**
K-line photometry. (A15). 467828
- laser-produced plasma**
Measurement of fast-electron energy spectra and preheating in laser-irradiated targets. (A14). 485731

- metabolism**
Molecular mechanisms of the epithelial transport of toxic metal ions, particularly mercury, cadmium, lead, arsenic, zinc, and copper. Comprehensive progress report, October 1, 1975 - December 31, 1978. (C21). [Data] 466231
Radioisotopic study of calcium metabolism in rat during chronic poisoning by cadmium. (C31). 461125
- neon 20 reactions**
Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187
- neutron activation analysis**
Neutron activation analysis application to the investigation of some data on water-salt exchange. (B11). 493500
- neutron reactions**
Status of ENDF/B-V neutron emission spectra induced by 14-MeV neutrons. (A34; Partial and total spectra, cross sections, graphs). [Data] 478734
- nutritional deficiency**
Observations on intestinal secretions of calcium by strontium-85 in normal Indian subjects and patients of nutritional osteomalacia. (C62). 482417
- photon collisions**
Measurement of fast-electron energy spectra and preheating in laser-irradiated targets. (A14). 485731
- pion minus reactions**
Emission of low energy charged particles following nuclear pion capture. (A34; Rates). 460360
Emission of low-energy charged particles following negative-pion capture from rest. (A34). 468557
- pion plus reactions**
Giant-resonance studies via inelastic pion scattering. (A34). 478692
- quantitative chemical analysis**
A feasibility study of the prompt gamma-ray analysis of bone using californium-252. (B11). [Data] 486506
- quantity ratio**
Preliminary mini experiments on leaching of glass. A report of the situation 1979-03-15. (E52, B24). [Data] 492252
- radiometric analysis**
Radiochemical determination of ^{226}Ra in bone: a preliminary analysis of results. (C21, B11). [Data] 479957
- solvent extraction**
Separation of strontium-89 and -90 from calcium in milk with a macrocyclic ether. (B11). 490293
- x radiation**
Proton-induced K x-ray production from Ca to Fe for 0.2 to 0.5 MeV incident energy. (A12). [Data] 488863
- CALCIUM ALLOYS:**
- electronic structure**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- laves phases**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- CALCIUM BORIDES:**
- nitridation**
Hexagonal boron nitride. Pt. 2. (B23). 460789
- CALCIUM CARBONATES:**
See also *CALCITE*; *DOLOMITE*; *LIEBIGITE*; *SCHROECKINGERITE*
- chemical reactions**
Electrochemical determination of the Gibb's energies of metal ion chelation, solid-solid phase transitions, and calcium isotope exchange reactions. (B12). 468750
Interaction of alkali metal nitrates with calcium carbonate and kyanite. (B12). 468830
- CALCIUM CHLORIDES:**
- chemical radiation effects**
Use of crystallosolvents for studying γ -initiated reactions of free radicals. (B14). 479189
- chemical reactions**
Electrochemical determination of the Gibb's energies of metal ion chelation, solid-solid phase transitions, and calcium isotope exchange reactions. (B12). 468750
- CALCIUM COMPOUNDS:**
See also *CALCITE*; *CALCIUM BORIDES*; *CALCIUM CARBONATES*; *CALCIUM CHLORIDES*; *CALCIUM FLUORIDES*; *CALCIUM HYDROXIDES*; *CALCIUM NITRIDES*; *CALCIUM OXIDES*; *CALCIUM PHOSPHATES*; *CALCIUM SILICATES*; *CALCIUM SULFATES*; *CALCIUM TUNGSTATES*; *DOLOMITE*; *FLUORITE*; *GYPSUM*; *LIEBIGITE*; *PEROVSKITE*; *SCHROECKINGERITE*
- activation analysis**
A system for measuring total body calcium in man using the ^{45}Ca (α , α) ^{37}Ar reaction. (B11, C61). 462667
- chemical reactions**
Physicochemical study of high-temperature interaction between $\text{Ca}_3\text{Nb}_2\text{O}_7$ and La_3NbO_7 . (B12). 468732
- crucibles**
Application of metal oxide refractories for melting and casting reactive metals. (B23, B21). 486961
- electronic structure**
Metal and silicon energy bands in calcium and scandium silicides spectra. (A13). 477958
- lattice parameters**
Particularities of thermal expansion of calcium vanadates. (B12). 475994
- moessbauer effect**
Effects of temperature and pressure in calcium ferricyanide by Moessbauer techniques. (A13). 471450
- phase diagrams**
Investigation into reaction in the systems formed by calcium molybdate and zinc, cadmium and lead oxides and molybdates. (B12). 478969
- thermoluminescence**
Calcium sulfate activated with thulium as a thermoluminescent phosphor. (E41). [Data] 470938
- CALCIUM FLUORIDES:**
See also *FLUORITE*
- absorption spectra**
Formation energy for radiation-induced defects in CaF_2 . (A13). 464191
- americium additions**
Radiation-induced ^{237}Np charge states from $^{241}\text{Am} - \text{CaF}_2$. (B14). 468953
- chemiluminescence**
Crossed-beam chemiluminescence. I. (A12). 483163
- electron spin resonance**
EPR and luminescence studies on high-valency uranium centres in CaF_2 . (A13). [Data] 462212
- f centers**
Correlation of thermoluminescence and the F-center annealing in undoped CaF_2 after reactor irradiation at low temperature. (A13). [Data] 481060
F center in CaF_2 , SrF_2 , BaF_2 . (A13). 471513
The F-band growth in undoped CaF_2 crystals by reactor irradiation at low temperature. (A13). [Data] 481061
- hydrogen**
Spin-lattice electron relaxation of hydrogen atoms in calcium fluorides, at liquid-helium temperature. (A13). 471498
- ionic conductivity**
Molecular dynamics studies of superionic conductors. (A12). 492546
- luminescence**
EPR and luminescence studies on high-valency uranium centres in CaF_2 . (A13). [Data] 462212
- mechanical properties**
Ceramics for applications in fusion systems. (A14, B25). 467524
- molecular models**
Molecular dynamics studies of superionic conductors. (A12). 492546
- phase diagrams**
Investigation of the $\text{KF}-\text{CaF}_2-\text{K}_2\text{WO}_4-\text{CaWO}_4$ system by the projection-thermographic method. (B12). 468877
- physical radiation effects**
Radiation damage and photochromism in the alkaline earth fluorides. (B25). [Data] 462938
Radiation damage in CaF_2 : Gd. (A13). 485633
- rutherford scattering**
Comparative observation of ionic migration in PbF_2 and CaF_2 thin films by Rutherford scattering. (A13). 471525
- thermoluminescence**
Gamma ray induced sensitization and residual thermoluminescence in common TLD phosphors. (E41). 461840
- zeeman effect**
Thermal coupling in low fields between the nuclear and electronic spins in Tm^{2+} doped CaF_2 . (A13). 471578
- CALCIUM HYDROXIDES:**
- adsorption**
Removal of ^{14}C -contaminated CO_2 from simulated LWR fuel reprocessing off-gas by utilizing the reaction between CO_2 and alkaline hydroxides in either slurry or solid form. (E51, B16). 480837
- chemical reaction kinetics**
Analysis of stirred-tank carbonation reactors. (E51, B16; Removal of $^{14}\text{CO}_2$ by reaction with $\text{Ca}(\text{OH})_2$). [Data] 495200
- CALCIUM IONS:**
- emission spectra**
Profiles of $\text{HI}(\text{La})$, MgII (h and k), CaII (H and K) lines of an active filament at the limb, with the LPSP instrument aboard the OSO-8 satellite. (A15). 467957
Simultaneous measurements of Ca^+ K, Ca^+ H, $\text{H}\alpha$, $\text{H}\beta$, and He D_1 emission in prominences. (A15). 467944
- energy-level transitions**
Breit-Pauli approximation for highly ionised beryllium-like ions up to Fe XXIII. (A12, A15). [Data] 462114
The $2s2p(^3\text{P},^3\text{P}) \rightarrow 2s^2(^1\text{S}_{\text{sup}}(\text{e}))$ intercombination in beryllium-like Mg IX, Si XI, Ar XV, Ca XVII and Fe XXIII. (A12, A15). [Data] 462115
- ion implantation**
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
- oscillator strengths**
Breit-Pauli approximation for highly ionised beryllium-like ions up to Fe XXIII. (A12, A15). [Data] 462114
The $2s2p(^3\text{P},^3\text{P}) \rightarrow 2s^2(^1\text{S}_{\text{sup}}(\text{e}))$ intercombination in beryllium-like Mg IX, Si XI, Ar XV, Ca XVII and Fe XXIII. (A12, A15). [Data] 462115
- photoionization**
Two-channel relativistic random-phase approximation applied to the photoionisation of helium- and beryllium-like ions. (A12). 474614
- CALCIUM ISOTOPES:**
See also *CALCIUM 40*; *CALCIUM 41*; *CALCIUM 42*; *CALCIUM 43*; *CALCIUM 44*; *CALCIUM 45*; *CALCIUM 46*; *CALCIUM 48*
- alpha reactions**
Nuclear scattering of high-energy alpha particles and matter distribution in calcium isotopes. (A33; sup(40,42,44,48)Ca). 493150
- energy-level transitions**
The collective bands of positive parity states in odd-A (fp) shell nuclei. (A33). [Data] 468260

- nuclear matter**
Nuclear scattering of high-energy alpha particles and matter distribution in calcium isotopes. (A33; sup(40,42,44,48)Ca). 493150
- nuclear radii**
Nuclear charge radii of the 1f/sub 7/2/ shell nuclei from muonic atoms. (A34). [Data] 486484
- nuclear structure**
Extended-Skyrme-force calculation: Theoretical description and application to Ca and Sn isotopes. (A33). 486302
Investigation of some nuclei in the fp shell region. (A33, A34). 483810
- thermal diffusion**
Mound Facility activities in chemical and physical research: July-December 1978. (B12, D13). 476032
- CALCIUM NITRIDES:**
- adsorption**
Performance characteristics of the HYCSOS chemical heat pump system based on rare earth transition metal AB₂ hydrides. (B23). 481868
- CALCIUM OXIDES:**
See also PEROVSKITE
- crystal structure**
Crystal structure of CaOx4B₂O₃x2H₂O=CaB₂O₁₁(OH)₄. (B12). 468893
Lattice shear distortions in fluorite structure oxides. (B23). 479484
- emission spectra**
Emission of CaO phosphors activated by Eu and Tb. (B12). 476056
- order-disorder transformations**
Lattice shear distortions in fluorite structure oxides. (B23). 479484
- phase diagrams**
Investigation into phase equilibrium of the CaO-V₂O₅-V₂O₄ system. (B12). 479070
Phase composition of the CaO-MgO-V₂O₅ system. (B12). 465405
- physical radiation effects**
Displacement functions for diatomic materials. (A14, B25). [Data] 464439
- CALCIUM PHOSPHATES:**
- euporium ions**
Anomalous spectral properties of inhomogeneously broadened transitions of Eu³⁺ in Ca(PO₃)₂ glass. (A12). 459771
- soils**
Efficiency of calcium phosphatic fertilizers in alkaline calcareous soils. (C41). 491086
- CALCIUM SILICATES:**
- crystal lattices**
Crystal structure of armstrongite. (B12). 465334
- CALCIUM SULFATES:**
See also GYPSUM
- adsorption**
Controlled sample program publication No. 1: characterization of rock samples. (E52; Interlaboratory methodology comparison for measuring radionuclide distribution in rocks). 461934
Mineral-contributed anion effects on the retention of trivalent actinides in the environment. (C52, E52, B31). [Data] 480091
- glow curve**
Relative thermoluminescence response of CaSO₄:Dy to alpha and gamma rays. (E41). [Data] 463741
- inorganic phosphors**
Effect of temperature during UV and gamma irradiations of TL phosphor CaSO₄:Dy. (E41). 470926
TL sensitivity of CaSO₄:Dy phosphor powder - effect of grinding. (E41). 470954
- physical radiation effects**
Thermoluminescence of x-irradiated CaSO₄: Dy phosphors and role of Na₂SO₄ as a charge compensator. (B25). 481905
- thermoluminescence**
Gamma ray induced sensitization and residual thermoluminescence in common TLD phosphors. (E41). 461840
Relative thermoluminescence response of CaSO₄:Dy to alpha and gamma rays. (E41). [Data] 463741
Thermal history and reusability of CaSO₄: Dy teflon TLD discs. (B24, E41). 460800
Thermoluminescence of x-irradiated CaSO₄: Dy phosphors and role of Na₂SO₄ as a charge compensator. (B25). 481905
TL sensitivity of CaSO₄:Dy. (E41). [Data] 463734
- thermoluminescent dosimeters**
Determination of the annodose using thermoluminescence dosimeters based on CaSO₄:Du. (B31). 494194
Glow curve behaviour of CaSO₄:Dy thermoluminescent phosphor. (E41, B25). 477401
- CALCIUM TUNGSTATES:**
- efficiency**
Study of the fluorescence quantum efficiency of CaWO₄ micro crystals excited by high energy photons. (A13). 471517
- fluorescence**
Study of the fluorescence quantum efficiency of CaWO₄ micro crystals excited by high energy photons. (A13). 471517
- oscillator strengths**
Calculus of oscillator forces of the Pr (III) ion doped in CaWO₄ and SrF₂ monocrystals. (A13). 459824
- phase diagrams**
Investigation of the KF-CaF₂-K₂WO₄-CaWO₄ system by the projection-thermographic method. (B12). 468877
- praseodymium additions**
Calculus of oscillator forces of the Pr (III) ion doped in CaWO₄ and SrF₂ monocrystals. (A13). 459824
- CALCIUM 40:**
- age estimation**
Analytical method for the K/Ca age determination of geological samples. (B31, B11). 484347
- charge density**
Leptonic probes of nuclear densities. (A33; Critical review). [Data] 486270
- density**
Determination of ⁴⁰Ca and ⁴⁸Ca matter densities by 600 MeV and 1 GeV proton elastic scattering. (A33). [Data] 493179
- deuteron reactions**
Application of the distorted wave method to the analysis of the deuteron disintegration reaction. (A33). 493317
A study of the elastic scattering of 2-3 MeV neutrons by ⁴⁰Ca and ³⁵S using an associated particle time-of-flight spectrometer. (A34). [Data] 486400
- energy levels**
J-averaged behavior of the core polarization through third order for excitations up to 10 h_o. (A33). 486210
Photon scattering from ⁴⁰Ca and ³⁹K up to 14 MeV. (A34; Nuclear, resonance fluorescence, strength, angular distribution, resonant absorption, branching ratios, J). [Data] 478765
- e0-transitions**
E0 matrix elements in ⁴⁰Ca and ⁴²Ca. (A33). 490061
E0 matrix elements in /sup 40,42,44/Ca. (A33). 475729
- forbidden transitions**
Decays of the lowest T<2 states in A<4N nuclei from ⁸Be to ⁴⁴Ti. (A34). 486379
Effective convection current in the shell-model. (A33). 481490
- giant resonance**
Excitation of isoscalar giant resonances by inelastic scattering of 153 MeV ⁶Li particles. (A34). 486413
Isoscalar multipole resonances in ⁴⁰Ca. (A34). [Data] 490263
- giant resonance model**
Macroscopic theory for dipole states. (A33). 472208
- isotope ratio**
Isotopic compositions of potassium and calcium in magnetic spherules from marine sediments. (B31). 476457
- isotopic exchange**
Electrochemical determination of the Gibb's energies of metal ion chelation, solid-solid phase transitions, and calcium isotope exchange reactions. (B12). [Data] 468750
- magnetic dipole moments**
A strong magnetic dipole excitation in ⁴⁰Ca observed in high-resolution inelastic electron scattering and coherent spin-flip transitions due to ground-state correlations. (A34). 490170
- magnetic moments**
Magnetic moments in calcium isotopes via a surface-interaction experiment. (A13). 474856
- molecular structure**
Comparison of entrance, exit and reaction channel data at backward angles for ²⁸Si/¹²C, ¹⁶O/²⁴Mg. (A34). [Data] 472242
- multipole transitions**
Core polarization charge for E6 transition. (A33). [Data] 465046
- nuclear matter**
Elastic and inelastic scattering of fast protons and electrons on nuclei and self-consistent calculations of nuclear densities. (A33). 493294
- nuclear quadrupole resonance**
Study of the giant quadrupole resonance region of ⁴⁰Ca and ⁴⁸Ca. (A34). 472228
- nuclear radii**
Ambiguities in pion-nucleus optical potentials and the determination of neutron radii. (A33). 468419
Convergence studies for the one-body mass radius operator of some closed-shell nuclei. (A33). 475744
A study of root mean square radius series. (A33). 478656
- nuclear structure**
Coupling of 4p and 4h modes in ⁴⁰Ca. (A33). 462606
A simple effective interaction for nuclear matter and finite nuclei. (A33). 468273
- spectroscopic factors**
 α spectroscopic factors in ⁴⁰Ca. (A34). 475807
- vibrational states**
Adiabatic analysis of time-dependent Hartree-Fock solutions in the testing case of vibrating nuclei. (A33). 472144
- CALCIUM 40 REACTIONS:**
- elastic scattering**
Resonant heavy-ion elastic scattering from s-d shell nuclei. (A34). 483837
- CALCIUM 40 TARGET:**
Elastic π^- scattering on ⁴He, ¹²C, ¹⁶O and ⁴⁰Ca. (A33). 468358
- alpha reactions**
Backward glory in heavy ion scattering. (A33). 483776
Contribution of separate exchange mechanisms into elastic scattering of complex particles in the region of back angles. (A33). 493323
Description of inverse maxima in complex-particle elastic scattering with allowance for exchange processes in introducing distortions in the eikonal approximation. (A33). 493324
Description of quasimolecular resonances in a potential model and investigation of reaction products. (A33). [Data] 472179
Description of quasimolecular resonances in a potential model and investigation of reaction products. (A33). [Data] 472179
Fourier-Bessel-analysis of alpha-particle scattering optical potentials and nuclear matter densities. (A33). [Data] 464988
Investigation of the deep interior of the α -nucleus interaction around A = 40. (A33). 483782
Nuclear structure approach to the nucleon-nucleus optical model. (A33). 465068
Population of f_{7/2} states in the ⁴¹Ca(α ,p)⁴⁴Sc reaction. (A34). 483934
Relevance of the proximity potential to light-ion scattering. (A33). 493303

- Single and mutual excitation of projectile and target in α -scattering. (A34). 460340
- Validity of refined folding model approaches for light projectile scattering. (A33). [Data] 465028
- argon 40 reactions**
- Elastic scattering of ^{40}Ar on ^{40}Ca at Esub(lab) = 191, 236 and 272 MeV. (A34). 483938
- Pion production in the $^{40}\text{Ar} + ^{40}\text{Ca}$ reaction at 1.05 GeV/nucleon. (A34). 490259
- calcium 40 reactions**
- New experimental results supporting the hypothesis of the excitation of collective modes in the $^{40}\text{Ca} + ^{40}\text{Ca}$ reaction. (A34). 481604
- carbon 12 reactions**
- Backward angle heavy ion elastic scattering on ^{40}Ca and ^{38}Ni . (A34). 468516
- Surface transparency in ^{12}C elastic scattering from /sup 40,42,48/Ca. (A34). 475842
- carbon 13 reactions**
- Alpha-transfer reactions with large energy transfers. (A34). 490159
- L = 1 single-proton pickup reactions on ^{40}Ca . (A34). 486351
- deuteron reactions**
- Helical cathode proportional chambers with application to the $^{40}\text{Ca}(d,\alpha)^{38}\text{K}$ reaction at 16 MeV. (A33, E41; Born approximation, compound-nucleus mechanism). 460316
- Relevance of the proximity potential to light-ion scattering. (A33). 493303
- Separation energies between the 2s/sub 1/2-⁻¹ and 1d/sub 3/2-⁻¹ hole states in the odd potassium isotopes. (A33). 486275
- Simple unitary estimate for multistep processes. (A33). 475712
- electron reactions**
- Isovector multipole giant resonances of electroexcitation of the ^{40}Ca nucleus. (A33). 464993
- A strong magnetic dipole excitation in ^{40}Ca observed in high-resolution inelastic electron scattering and coherent spin-flip transitions due to ground-state correlations. (A34). 490170
- Test of a scaling law for quasi-elastic electron scattering. (A34). 468584
- excited states**
- Self-consistent description of low-lying states in double-magic nuclei. (A33). 493171
- giant resonance**
- Isovector multipole giant resonances of electroexcitation of the ^{40}Ca nucleus. (A33). 464993
- helium 3 reactions**
- Relevance of the proximity potential to light-ion scattering. (A33). 493303
- kaon minus reactions**
- A full set of nuclear shell orbitals for the Λ particle observed in sub(Λ) ^{22}S and sub(Λ) ^{40}Ca . (A34). 490127
- lambda particles**
- A full set of nuclear shell orbitals for the Λ particle observed in sub(Λ) ^{22}S and sub(Λ) ^{40}Ca . (A34). 490127
- lithium 6 reactions**
- Elastic and inelastic scattering of ^6Li by ^{40}Ca and ^{44}Ca . (A34; 30 MeV; angular distributions for scattering and ($^6\text{Li},^4\text{He}$) reaction). 486326
- [Data] 465028
- neon 20 reactions**
- Alpha-transfer reactions with large energy transfers. (A34). 490159
- neutron reactions**
- $^{40}\text{Ca}(\text{anti } n, \gamma)^{41}\text{Ca}$ reaction. (A34; 9 and 11.0 MeV; analyzing power angular distributions). [Data] 472264
- Neutron inelastic scattering from closed-shell nuclei. (A34; Differential cross sections, 11 to 2517 MeV.). 460321
- North Carolina State University Nuclear Structure Research at the Triangle Universities Nuclear Laboratory. Progress report, April 1, 1978 - March 31, 1979. (A34). 475836
- Study of the $^{40}\text{Ca}(\text{anti } n, \gamma)^{41}\text{Ca}$ reaction. (A34; 9 and 11 MeV; analyzing power). [Data] 478737
- nitrogen 14 reactions**
- Alpha-transfer reactions with large energy transfers. (A34). 490159
- L = 1 single-proton pickup reactions on ^{40}Ca . (A34). 486351
- Yrast states in ^{52}Fe , ^{52}Mn and the decay of $^{52}\text{Fe}/\text{sup m/}$. (A34). 486382
- nitrogen 15 reactions**
- L = 1 single-proton pickup reactions on ^{40}Ca . (A34). 486351
- nucleon reactions**
- Nuclear structure approach to the nucleon-nucleus optical model. (A33). 465068
- oxygen 16 reactions**
- Angular correlations in compound nucleus decay following the reactions $^{16}\text{O} + ^{27}\text{Al}$, ^{40}Ca and ^{38}Ni . (A34). 468515
- Backward angle heavy ion elastic scattering on ^{40}Ca and ^{38}Ni . (A34). 468516
- High spin states in ^{52}Mn . (A34). 483880
- Investigation of the elastic ^{16}O scattering on ^{28}Si and ^{40}Ca using the generator coordinate method. (A34). 465170
- photoneuclear reactions**
- Ineffectiveness of the quasi-deuteron mechanism of interaction in yielding (γ , nucleon) reactions on complex nuclei above 150 MeV. (A33). [Data] 481501
- Photon scattering from ^{40}Ca and ^{38}K up to 14 MeV. (A34; Nuclear, resonance fluorescence, strength, angular distribution, resonant absorption, branching ratios, J). [Data] 478765
- pion minus reactions**
- π^- and π^0 elastic scattering from ^{40}Ca at 65 MeV. (A34; Differential cross sections, preliminary results). [Data] 478718
- Ambiguities in pion-nucleus optical potentials and the determination of neutron radii. (A33). 468419
- Evidence for the quasifree character of the ($\pi^-, \pi N$) reactions on ^{12}C , ^{24}Mg , and ^{40}Ca . (A34, A33). 486422
- Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^- - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
- Total pion cross-sections. (A33; 50 to 250 MeV). [Data] 486233
- pion plus reactions**
- π^+ and π^0 elastic scattering from ^{40}Ca at 65 MeV. (A34; Differential cross sections, preliminary results). [Data] 478718
- Ambiguities in pion-nucleus optical potentials and the determination of neutron radii. (A33). 468419
- Evidence for the quasifree character of the ($\pi^+, \pi N$) reactions on ^{12}C , ^{24}Mg , and ^{40}Ca . (A34, A33). 486422
- Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^+ - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
- The pion-nucleus many-body problem. (A33). 468284
- Total pion cross-sections. (A33; 50 to 250 MeV). [Data] 486233
- proton reactions**
- The (p, π^+) reaction and the $NN\pi$ vertex. (A33). 490101
- Collective state excitation by intermediate energy protons. (A34). 483816
- Elastic differential cross sections and analyzing powers for $p(\text{pol}) + ^{40} \text{ } ^{42} \text{ } ^{44} \text{ } ^{48}\text{Ca}$ at 0.8 GeV. (A34). 468500
- Energy dependence of pion production by protons on nuclei. (A34). 490219
- Experimental and theoretical studies of positive pion production on ^{10}B and ^{40}Ca by 163-186 MeV protons. (A34). 483885
- J dependence of the analyzing power for (p, α) reactions. (A34). 486464
- Microscopic analysis of $p\text{-}^{40}\text{Ca}$ elastic scattering at 30.3 MeV. (A33). 481471
- Microscopic analysis of $p\text{-}^{40}\text{Ca}$ elastic scattering at 30.3 MeV. (A33). 464961
- Microscopic approaches to the intermediate energy nucleon-nucleus optical potential. (A33; 100 to 1500 MeV). 468392
- Neutron isotopic density differences deduced from 0.8 GeV polarized proton elastic scattering. (A33). 486283
- Proton total reaction cross section measurements for /sup 40,44,48/Ca at 700 MeV. (A34). 475788
- Proton-nucleus elastic scattering at 1 GeV in the Glauber model. (A33). 468267
- Ratios of cross sections for elastic scattering of 30.3 MeV protons from /sup 40,44,48/Ca. (A34). 478695
- Relevance of the proximity potential to light-ion scattering. (A33). 493303
- Self-consistent description of low-lying states in double-magic nuclei. (A33). 493171
- Total reaction cross sections and the matter density of finite nuclei. (A33). 475723
- Validity of the closure approximation in multiple scattering theory. (A33, A21). 475773
- silicon 28 reactions**
- Yrast states in ^{42}Zn . (A34). 478754
- CALCIUM 41:**
- isotope dating**
- Radioisotope clocks in archaeology. (B31). 490783
- nuclear radii**
- Nuclear charge distribution of ^{41}Ca . (A12). [Data] 471356
- parity**
- Even parity states of ^{41}Ca and ^{41}Sc . (A34). 468440
- CALCIUM 41 TARGET:**
- alpha reactions**
- Population of f_{sub(7/2)} states in the $^{41}\text{Ca}(\alpha, p)^{44}\text{Sc}$ reaction. (A34). 483934
- deuteron reactions**
- $^{41}\text{Ca}(d, ^3\text{He})^{40}\text{K}$ reaction at 20 MeV. (A34). 490227
- High-spin levels in ^{39}K excited by the $^{41}\text{Ca}(d, \alpha)$ reaction. (A34). 475848
- Separation energies between the 2s/sub 1/2-⁻¹ and 1d/sub 3/2-⁻¹ hole states in the odd potassium isotopes. (A33). 486275
- helium 3 reactions**
- A study of the two-particle states in ^{42}Sc from the $^{41}\text{Ca}(^3\text{He}, d)$ reaction. (A34). 483937
- CALCIUM 42:**
- e0-transitions**
- E0 matrix elements in $^{40} \text{ } ^{42} \text{ } ^{44}\text{Ca}$. (A33). 490061
- E0 matrix elements in /sup 40,42,44/Ca. (A33). 475729
- giant resonance**
- Excitation of isoscalar giant resonances by inelastic scattering of 153 MeV ^6Li particles. (A34). 486413
- high spin states**
- Search for two neutron high spin states in sd and fp shell nuclei via the ($\alpha, ^3\text{He}$) reaction. (A34). 465120
- isotope ratio**
- Isotopic compositions of potassium and calcium in magnetic spherules from marine sediments. (B31). 476457
- CALCIUM 42 TARGET:**
- alpha reactions**
- Cross sections for the $^{42}\text{Ca}(p, \gamma)^{43}\text{Sc}$, $^{42}\text{Ca}(\alpha, n)^{45}\text{Ti}$ and $^{44}\text{Ca}(p, n)^{44}\text{Sc}$ reactions. (A34). 490136
- Isospin decomposition of nuclear multipole matrix elements from γ decay rates of mirror transitions: Test of values obtained with hadronic probes. (A33). 464958
- carbon 12 reactions**
- Surface transparency in ^{12}C elastic scattering from /sup 40,42,48/Ca. (A34). 475842
- oxygen 16 reactions**
- Effects of non-local potentials in heavy ion reactions. (A33; $^{42}\text{Ca}(^{16}\text{O}, ^{16}\text{N})$, 48 MeV; DWBA calculations of angular distributions). [Data] 486212

- proton reactions**
Cross sections for the $^{42}\text{Ca}(p,\gamma)^{43}\text{Sc}$, $^{42}\text{Ca}(\alpha,n)^{45}\text{Ti}$ and $^{44}\text{Ca}(p,n)^{44}\text{Sc}$ reactions. (A34). 490136
Elastic differential cross sections and analyzing powers for $p(\text{pol}) + ^{40,42,44}\text{Ca}$ at 0.8 GeV. (A34). 468500
Microscopic approaches to the intermediate energy nucleon-nucleus optical potential. (A33; 100 to 1500 MeV). 468392
- CALCIUM 43:**
energy levels
A comprehensive study of the γ -ray spectroscopy of ^{43}Ca . (A34). 490125
gamma spectroscopy
A comprehensive study of the γ -ray spectroscopy of ^{43}Ca . (A34). 490125
hyperfine structure
Isotope shift and hyperfine structure of ^{43}Ca by laser spectroscopy. (A12, A34). [Data] 467234
nuclear magnetic moments
Isotope shift and hyperfine structure of ^{43}Ca by laser spectroscopy. (A12, A34). [Data] 467234
quadrupole moments
Precision method for hyperfine-structure studies in low-abundance isotopes: The quadrupole moment of ^{43}Ca . (A34). 490171
- CALCIUM 44:**
excited states
The $^{48}\text{Ti}(d,^4\text{Li})^{44}\text{Ca}$ reaction at $E_{\text{sub}}(d)=55$ MeV. (A34). 490157
e0-transitions
E0 matrix elements in $^{40,42,44}\text{Ca}$. (A33). 490061
E0 matrix elements in $^{40,42,44}\text{Ca}$. (A33). 475729
giant resonance
Excitation of isoscalar giant resonances by inelastic scattering of 153 MeV ^6Li particles. (A34). 486413
isotope ratio
Isotopic compositions of potassium and calcium in magnetic spherules from marine sediments. (B31). 476457
magnetic moments
Magnetic moments in calcium isotopes via a surface-interaction experiment. (A13). 474856
pionic atoms
Pionic X-rays and the neutron radius of ^{44}Ca . (A12, A34). 467163
- CALCIUM 44 TARGET:**
alpha reactions
Description of quasimolecular resonances in a potential model and investigation of reaction products. (A33). [Data] 472179
lithium 6 reactions
Elastic and inelastic scattering of ^6Li by ^{40}Ca and ^{44}Ca . (A34; 30 MeV: angular distributions for scattering and $^6\text{Li}, ^4\text{He}$ reaction). [Data] 486326
proton reactions
Elastic differential cross sections and analyzing powers for $p(\text{pol}) + ^{40,42,44}\text{Ca}$ at 0.8 GeV. (A34). 468500
Microscopic approaches to the intermediate energy nucleon-nucleus optical potential. (A33; 100 to 1500 MeV). 468392
North Carolina State University Nuclear Structure Research at the Triangle Universities Nuclear Laboratory. Progress report, April 1, 1978 - March 31, 1979. (A34). 475836
Proton total reaction cross section measurements for $^{40,44,48}\text{Ca}$ at 700 MeV. (A34). 475788
Ratios of cross sections for elastic scattering of 30.3 MeV protons from $^{40,44,48}\text{Ca}$. (A34). 478695
Total reaction cross sections and the matter density of finite nuclei. (A33). 475723
- CALCIUM 45:**
adsorption
The influence of calcium-45 on the inhibitive effect of calcium hexameta-phosphate combination and the electrocapillary effect of calcium-45. (B14, B15; 17 refs., 10 figures). 460605
arthropods
Calcium cycling and trophic relationships of arthropods in a ^{45}Ca -tagged cornfield. (C21, C22). 484574
autoradiography
Autoradiography of several components in one sample: determination of ^{24}Na and ^{45}Ca distribution in silica building material samples. (B11). 481651
energy levels
Three nucleon transfer in (α,p) and $(^3\text{He},^4\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). 478619
excretion
Removal of radioactive strontium from the rat by feeding stable strontium. (C21). 479946
radionuclide kinetics
Intestinal transport and excretion of calcium in the course of intoxication with dinocap. (C21). [Data] 484569
radionuclide migration
Glucose-dependent effect of methylxanthines on the ^{45}Ca distribution in pancreatic β -cells. (C21). 484557
spatial distribution
Autoradiography of several components in one sample: determination of ^{24}Na and ^{45}Ca distribution in silica building material samples. (B11). 481651
tracer techniques
Absorption of labelled calcium- ^{45}Ca by prawn from sea water. (C45). 469871
uptake
Calcium-45 uptake in blood and urine in experimental urolithiasis and idiopathic stoneformers. (C21). 482103
- CALCIUM 46:**
isotope ratio
Isotopic compositions of potassium and calcium in magnetic spherules from marine sediments. (B31). 476457
- CALCIUM 48:**
charge density
Leptonic probes of nuclear densities. (A33; Critical review). [Data] 486270
coulomb energy
Coulomb displacement energies in nuclei: a new approach. (A33). 481462
density
Determination of ^{40}Ca and ^{48}Ca matter densities by 600 MeV and 1 GeV proton elastic scattering. (A33). [Data] 493179
giant resonance
Excitation of isoscalar giant resonances by inelastic scattering of 153 MeV ^6Li particles. (A34). 486413
isotopic exchange
Electrochemical determination of the Gibb's energies of metal ion chelation, solid-solid phase transitions, and calcium isotope exchange reactions. (B12). [Data] 468750
nuclear matter
Elastic and inelastic scattering of fast protons and electrons on nuclei and self-consistent calculations of nuclear densities. (A33). 493294
nuclear quadrupole resonance
Study of the giant quadrupole resonance region of ^{40}Ca and ^{48}Ca . (A34). 472228
nuclear radii
Ambiguities in pion-nucleus optical potentials and the determination of neutron radii. (A33). 468419
Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^+ - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
- CALCIUM 48 BEAMS:**
van de graaff accelerators
On the production of negative ion beams of rare isotopes for tandem accelerators. (E16). [Data] 491628
- CALCIUM 48 REACTIONS:**
heavy ion fusion reactions
Superheavy elements - a crossroads. (A34). [Data] 486314
uranium 238 target
Large area two dimensional position sensitive detectors. (E41). [Data] 466822
- CALCIUM 48 TARGET:**
alpha reactions
Fourier-Bessel-analysis of alpha-particle scattering optical potentials and nuclear matter densities. (A33). [Data] 464988
Validity of refined folding model approaches for light projectile scattering. (A33). [Data] 465028
boron 11 reactions
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
carbon 12 reactions
Surface transparency in ^{12}C elastic scattering from $^{40,42,48}\text{Ca}$. (A34). 475842
excited states
Self-consistent description of low-lying states in double-magic nuclei. (A33). 493171
helium 3 reactions
Reaction mechanism for $(^3\text{He}, t)$. (A34). 490162
Spectroscopic study of the $N=27$ nuclei by means of the (τ_{α},α) reaction. (A34). 481555
Three nucleon transfer in (α,p) and $(^3\text{He},^4\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
lithium 6 reactions
Validity of refined folding model approaches for light projectile scattering. (A33). [Data] 465028
oxygen 16 reactions
Model for an effective Q value for heavy-ion-induced transfer reactions. (A33). 478673
Simple unitary estimate for multistep processes. (A33). 475712
oxygen 18 reactions
One- and two-proton transfer reactions on ^{48}Ca . (A34). 486472
Two-proton transfer reaction $^{48}\text{Ca}(^{18}\text{O}, ^{16}\text{O})^{32}\text{Ti}$ at 102 MeV. (A34). 481545
pion minus reactions
Ambiguities in pion-nucleus optical potentials and the determination of neutron radii. (A33). 468419
Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^- - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
Total pion cross-sections. (A33; 50 to 250 MeV). [Data] 486233
pion plus reactions
Ambiguities in pion-nucleus optical potentials and the determination of neutron radii. (A33). 468419
Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^+ - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
Total pion cross-sections. (A33; 50 to 250 MeV). [Data] 486233
proton reactions
Cross section measurements and thermonuclear reaction rates for $^{42}\text{Ca}(p,\gamma)^{43}\text{Sc}$ and $^{44}\text{Ca}(p,n)^{44}\text{Sc}$. (A34, A15). 483942
Elastic differential cross sections and analyzing powers for $p(\text{pol}) + ^{40,42,44}\text{Ca}$ at 0.8 GeV. (A34). 468500
Microscopic approaches to the intermediate energy nucleon-nucleus optical potential. (A33; 100 to 1500 MeV). 468392
Neutron isotopic density differences deduced from 0.8 GeV polarized proton elastic scattering. (A33). 486283
Proton total reaction cross section measurements for $^{40,44,48}\text{Ca}$ at 700 MeV. (A34). 475788
Proton-nucleus elastic scattering at 1 GeV in the Glauber model. (A33). 468267
Ratios of cross sections for elastic scattering of 30.3 MeV protons from $^{40,44,48}\text{Ca}$. (A34). 478695

- Self-consistent description of low-lying states in double-magic nuclei. (A33). 493171
- Total reaction cross sections and the matter density of finite nuclei. (A33). 475723
- Two-step process ($p,^3\text{He}$)($^3\text{He},t$) in the $^{48}\text{Ca}(p,t)^{48}\text{Ca}$ reaction. (A33). 464979
- [Data]
- sulfur 32 reactions**
- Observation of the double-charge-exchange reaction $^{48}\text{Ca}(^{32}\text{S}, ^{32}\text{Si})^{48}\text{Ti}$ at $E_{\text{sub}}(\text{lab}) = 125 \text{ MeV}$. (A34). [Data] 481618
- CALCULATIONS (COMPUTER):**
- See **COMPUTER CALCULATIONS**
- CALHOUN-1 REACTOR:**
- containment buildings**
- Gamma dose measurements at Zion and Fort Calhoun Stations. (E32). 480641
- radioactive wastes**
- In-plant source term measurements at Fort Calhoun Station - Unit 1. Topical technical report. (E32). 470661
- radioactivity**
- Gamma dose measurements at Zion and Fort Calhoun Stations. (E32). 480641
- CALIBRATION STANDARDS:**
- activation analysis**
- Determination of chromium in Bowen's kale, NBS bovine liver, and brewers yeast, before and after dry ashing. (B11; Bowen's kale, NBS bovine liver, Brewers yeast). 486555
- cesium 137**
- Standardization of ^{137}Cs by the $4\pi(\text{PC})\text{-}\gamma$ efficiency-tracing method with ^{14}Cs as tracer. (D15). 491409
- dosemeters**
- National primary standards and calibration of therapy level dosimeters. (C55). 484698
- gamma radiation**
- Research with the 4 MV accelerator. (A34). 483818
- X and γ reference radiations for calibrating dosemeters and dose ratemeters and for determining their response as a function of photon energy. (D15, E41). [Data] 470248
- international cooperation**
- International Co-operation in the field of reference materials. (B11). 483990
- neutron activation analysis**
- Instrumental neutron activation analysis as a means of evaluation of reference sample homogeneity. (E17, B11). [Data] 484883
- nuclear fuels**
- List of reference materials for non-destructive assay of U, Th and Pu isotopes. (E23). [Data] 491769
- photon activation analysis**
- Use of low energy photon spectroscopy in activation analysis of noble metals with high-energy bremsstrahlung. (B11). [Data] 472400
- quantitative chemical analysis**
- Contribution of nuclear analysis methods to the certification of BCR reference materials for non-metals in non-ferrous metals. (B11). [Data] 483993
- Manufacture of uranium metal reference sample. (B21). 462842
- tracer techniques**
- Standardization of low energy beta and beta-gamma complex emitters by the tracer and the efficiency extrapolation methods. (E41). 461855
- x radiation**
- X and γ reference radiations for calibrating dosemeters and dose ratemeters and for determining their response as a function of photon energy. (D15, E41). [Data] 470248
- CALIFORNIA:**
- aerial monitoring**
- Aerial radiometric and magnetic survey: Goldfield National Topographic Map, California and Nevada. (B31). [Data] 487079
- earthquakes**
- Seismic and geologic investigations of the Sandia Livermore Laboratory site. (B31). 472795
- magnetic surveys**
- Aerial radiometric and magnetic survey: Goldfield National Topographic Map, California and Nevada. (B31). [Data] 479589
- Aerial radiometric and magnetic survey: Trona National Topographic Map, California. (B31). [Data] 479588
- Aerial radiometric and magnetic survey: Trona National Topographic Map, California. (B31). [Data] 479587
- Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada), Williams Quadrangle (Arizona), Prescott Quadrangle (Arizona), and Kingman Quadrangle (Arizona, California, Nevada). Final report. Volume I. (B31). [Data] 487125
- Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479653
- Airborne gamma-ray spectrometer and magnetometer survey: Kingman Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479652
- nuclear power plants**
- California declines the nuclear gamble: is such a state choice preempted. (F22). 474361
- radiometric surveys**
- Aerial radiometric and magnetic survey: Trona National Topographic Map, California. (B31). [Data] 479587
- Aerial radiometric and magnetic survey: Goldfield National Topographic Map, California and Nevada. (B31). [Data] 479589
- Aerial radiometric and magnetic survey: Trona National Topographic Map, California. (B31). [Data] 479588
- Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada), Williams Quadrangle (Arizona), Prescott Quadrangle (Arizona), and Kingman Quadrangle (Arizona, California, Nevada). Final report. Volume I. (B31). [Data] 487125
- Airborne gamma-ray spectrometer and magnetometer survey: Las Vegas Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479653
- Airborne gamma-ray spectrometer and magnetometer survey: Kingman Quadrangle (Arizona, California, Nevada). Final report. (B31). [Data] 479652
- underground nuclear stations**
- Geological study of the underground siting of nuclear power plants. (C52). 494388
- Underground siting of nuclear power reactors, determination of site characteristics, and general site availability in California. (C52). 494389
- CALIFORNIUM:**
- adsorption**
- Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52). 461939
- fluorescence**
- Precision measurement of K-shell fluorescence yields in actinide elements. (A12). [Data] 467150
- hadronic atoms**
- Hadronic atoms. (A12, A22). 477842
- solvent extraction**
- Cleanex process: a versatile solvent extraction process for recovery and purification of lanthanides, americium, and curium. (B16). 476204
- surface properties**
- Valence state at the surface of rare-earth metals. (B22). 490592
- valence**
- Valence state at the surface of rare-earth metals. (B22). 490592
- CALIFORNIUM BROMIDES:**
- absorption spectra**
- Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- lattice parameters**
- Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- valence**
- Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- CALIFORNIUM CHLORIDES:**
- lattice parameters**
- Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- valence**
- Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- CALIFORNIUM COMPOUNDS:**
- See also **CALIFORNIUM BROMIDES**; **CALIFORNIUM CHLORIDES**; **CALIFORNIUM FLUORIDES**
- oxidation**
- Oxidation of microquantities of transplutonium elements up to tetravalent state in phosphoric acid solutions. (B13). 476138
- CALIFORNIUM FLUORIDES:**
- absorption spectra**
- Physical-chemical studies of transuranium elements. (B13). 472490
- CALIFORNIUM ISOTOPES:**
- See also **CALIFORNIUM 242**; **CALIFORNIUM 244**; **CALIFORNIUM 247**; **CALIFORNIUM 249**; **CALIFORNIUM 250**; **CALIFORNIUM 252**; **CALIFORNIUM 254**
- CALIFORNIUM 242:**
- radionuclide migration**
- Transfer of actinides from the English Channel into the southern North Sea. (B32). [Data] 472856
- CALIFORNIUM 244:**
- radionuclide migration**
- Transfer of actinides from the English Channel into the southern North Sea. (B32). [Data] 472856
- CALIFORNIUM 247:**
- electron capture decay**
- Proton states in ^{247}Bk excited by $^{244}\text{Cm}(\alpha,t)$ reaction and ^{247}Cf (electron capture) and $^{251}\text{Es}(\alpha)$ decays. (A34). 490115
- CALIFORNIUM 249:**
- volatility**
- Volatility investigations on some transuranium elements from titanium surfaces by thermal desorption. (B13). 486720
- x-ray spectroscopy**
- Composition analysis of a ^{249}Bk - ^{249}Cf mixture by X-rays. (B11). 493485
- CALIFORNIUM 249 TARGET:**
- deuteron reactions**
- Electric monopole transitions and excited 0^+ states in ^{250}Cf . (A34). 475786
- neutron reactions**
- Fractional independent yields of ^{139}Ba and ^{142}La from thermal-neutron-induced fission of ^{249}Cf . (A34). 490205
- CALIFORNIUM 250:**
- energy levels**
- Electric monopole transitions and excited 0^+ states in ^{250}Cf . (A34). 475786
- Energy levels of ^{250}Cf populated in the β^- decay of ^{250}Bk . (A34). 468547

| | |
|--|--------|
| e0-transitions | |
| Electric monopole transitions and excited 0 ⁺ states in ²⁵⁰ Cf. (A34). | 475786 |
| CALIFORNIUM 250 TARGET: | |
| neutron reactions | |
| Thermal cross sections and resonance integrals of neutron radiation capture by sup(244-248)Cm and ²⁵⁰ Cf nuclei. (A34). | 465135 |
| CALIFORNIUM 252: | |
| beta spectra | |
| Investigations of the hard beta radiation from ²⁵² Cf fission. (A34). | 472235 |
| [Data] | |
| distribution | |
| Uptake and distribution of californium-252 chloride administered intraperitoneally, intravenously or intratracheally and the effect of in vivo DTPA chelation on intratracheal instillation in the rat. (C21). | 473054 |
| fast neutrons | |
| Determination of fluorine in glasses by cyclic activation analysis using a californium-252 neutron source. (B11). | 484010 |
| fission | |
| Search for neutron-deficient fission fragments of ²⁵² Cf. (A34). | 493373 |
| Study of the hard beta radiation produced at californium-252 fission. (A34). [Data] | 493374 |
| fission fragments | |
| Application of the f-f coincidence method for studying of ²⁵² Cf fission fragments. (A32). | 462591 |
| Investigations of the hard beta radiation from ²⁵² Cf fission. (A34). | 472235 |
| [Data] | |
| fission neutrons | |
| (n,p) and (n,f) cross section measurements for ²⁵² Cf neutron spectrum. (A34). [Data] | 481548 |
| fission yield | |
| Charge distribution in the spontaneous fission of ²⁵² Cf. (A34). [Data] | 460334 |
| microdosimetry | |
| Microdosimetric characteristics of neutron spectrum for ²⁵² Cf fission and P-2, B-3 beams from BR-10 reactor. (C55). | 466364 |
| neutron fluence | |
| Neutron absorbed dose measurements in phantom from ²⁵² Cf source. (C11, C55). | 465902 |
| neutron reactions | |
| (n,p) and (n,f) cross section measurements for ²⁵² Cf neutron spectrum. (A34). [Data] | 481548 |
| neutron sources | |
| Albedo of neutrons of a point isotropic source at two-layer barrier. (A31). | 493123 |
| Albedo of neutrons of point sources at the plane barrier. (A31). | 493124 |
| Fabrication of ²⁵² Cf medical sources. (D14). | 476837 |
| production | |
| Transuranium processing plant report of production, status, and plans for the period January 1, 1978 - September 30, 1978. (D13). | 491393 |
| radiation source implants | |
| Remote control afterloading with high intensity ²⁵² Cf for tumor therapy. (C60). | 470017 |
| radioactivation | |
| Counting yield calibration of NaI(Tl) detectors for complex geometry samples by use of californium-252. (E41). | 485082 |
| radionuclide kinetics | |
| Metabolism and microdistribution of californium-252, intratracheally administered to rats, and its effect on parenchyma of lungs. (C21). | 484587 |
| spontaneous fission | |
| Charge distribution in the spontaneous fission of ²⁵² Cf. (A34). [Data] | 460334 |
| Dependence of neutron yield on fragment mass for several low-energy fissioning systems. (A33). | 486229 |
| Isotopic mass dispersion discontinuity in various fission processes and its interpretation as a neutron shell effect. (A33). | 475781 |
| On prompt neutrons of heavy nucleus fission. (A34). | 486485 |
| Statistical model analysis of spin influence on the deexcitation of fission fragments. (A33; Angular momentum). | 465033 |
| Symposium summary: nuclear data problems for thermal reactor applications. (E21, A34). | 491717 |
| thermal neutrons | |
| Determination of fluorine in glasses by cyclic activation analysis using a californium-252 neutron source. (B11). | 484010 |
| uses | |
| Remote control afterloading with high intensity ²⁵² Cf for tumor therapy. (C60). | 470017 |
| CALIFORNIUM 254: | |
| production | |
| Transuranium processing plant report of production, status, and plans for the period January 1, 1978 - September 30, 1978. (D13). | 491393 |
| spontaneous fission | |
| Dependence of neutron yield on fragment mass for several low-energy fissioning systems. (A33). | 486229 |
| CALORIMETERS: | |
| calibration | |
| The photon calorimeter for experiment WA3 at CERN. (E42). | 488308 |
| comparative evaluations | |
| Uranium-scintillator device. (E16, E41). | 494854 |
| construction | |
| A calorimeter for solids for the 0.4 to 30K range. (E42). [Data] | 477445 |
| counting rates | |
| Some comments on forward calorimeters. (E16, E41). | 494853 |
| fabrication | |
| An isoperibol solution calorimeter for heats of reactions. (E42). | 482889 |
| feasibility studies | |
| Feasibility of a Mound-designed transportable calorimeter. (F41, E42). | 480934 |
| frequency converters | |
| Fluorescent-wave-shifters and scintillators for calorimeters. (E41). | 485121 |
| linear momentum resolution | |
| Effect of calorimeter resolution on high-Psub(T) particle distributions. (E41). | 485053 |
| operation | |
| ANL small-sample calorimeter system design and operation. (B11). | 468662 |
| performance | |
| Proportional wire calorimeters at ISABELLE. (E16, E41). | 494814 |
| plastic scintillators | |
| Fluorescent-wave-shifters and scintillators for calorimeters. (E41). | 485121 |
| resolution | |
| Calculated response of a total liquid argon calorimeter to protons and electrons in the 0.5- to 5.0-GeV energy range. (E16). | 494775 |
| shower counters | |
| The segmented calorimeter: a study of hadron shower structure. (E41). | 485125 |
| spatial resolution | |
| The photon calorimeter for experiment WA3 at CERN. (E42). | 488308 |
| specific heat | |
| A calorimeter for solids for the 0.4 to 30K range. (E42). [Data] | 477445 |
| superconducting cables | |
| Setup for measuring losses in multifilament superconductors. (E12). | 491510 |
| CALORIMETRIC DOSEMETERS: | |
| adiabatic processes | |
| Photon burst dosimetry with an adiabatic calorimeter. Application to the pulsed generator 'Thalie'. (D15). | 473575 |
| ionization chambers | |
| An instrument to measure the spectrum of cosmic ray iron and other nuclei to above 100 GeV/nucleon. (E41, A15). | 480744 |
| radiation dose units | |
| Quasi-adiabatic differential calorimeter for determining the absorbed dose unit of photons. (E41). | 488255 |
| specifications | |
| A calorimeter for high energy photons. (E41). | 470843 |
| Calorimetry. (E42). | 474155 |
| CALORIMETRY: | |
| water | |
| The standard enthalpy of ionization of water at 298 K from calorimetric measurements on iodine pentoxide. (B12). | 460450 |
| CALORIZING: | |
| <i>See DIFFUSION COATING</i> | |
| CALVERT CLIFFS-1 REACTOR: | |
| radiation monitoring | |
| Complying with appendix I: an operating system for effluent accounting and reporting. (E32, C52). | 473896 |
| radioactive effluents | |
| Complying with appendix I: an operating system for effluent accounting and reporting. (E32, C52). | 473896 |
| CALVERT CLIFFS-2 REACTOR: | |
| radiation monitoring | |
| Complying with appendix I: an operating system for effluent accounting and reporting. (E32, C52). | 473896 |
| radioactive effluents | |
| Complying with appendix I: an operating system for effluent accounting and reporting. (E32, C52). | 473896 |
| CALVES: | |
| babesidae | |
| Babesia major: protection of intact calves against homologous challenge by the injection of irradiated piroplasms. (C42). | 476641 |
| immunity | |
| Babesia major: protection of intact calves against homologous challenge by the injection of irradiated piroplasms. (C42). | 476641 |
| parasites | |
| Preliminary report on the development of irradiated Taenia saginata oncospheres in calves. (C42). | 463320 |
| CAMAC SYSTEM: | |
| <i>(Computer Application to Measurement And Control.)</i> | |
| Description of a Moessbauer data acquisition system using CAMAC. (E41). | 470934 |
| Event Handler: a fast programmable, CAMAC-coupled data acquisition interface. (E21). | 461593 |
| Multi-processor auxiliary crate controller for front-end data processing in CAMAC. (E42). | 471005 |
| analog-to-digital converters | |
| A multi-parameter CAMAC compatible ADC scanner. (E41). | 470919 |
| data processing | |
| Data transfer in on-line systems. (F31). | 462029 |
| equipment interfaces | |
| CAMAC to GPIB interface. (F50; DOE). | 471175 |
| Codas - the JET control and data acquisition system. (A14, F50; Joint European Torus.). | 467510 |
| fortran | |
| Rapid CAMAC data handling in FORTRAN real time programs. (F51). | 477545 |

- hp computers**
CAMAC system applications. (E42). 477451
- logic circuits**
High speed CAMAC differential branch highway driver. (E42, E13, E16). 492208
- microprocessors**
Use of a microprocessor in the CAMAC standard. The dedicated microcomputer: JCAM-10. (E42). 470996
- performance**
CAMAC: a standardized modular instrumentation system. (E41). 463728
- programming languages**
Design of a compiler working out a real time BASIC language for CAMAC monitoring. (F50). 471172
- real time systems**
Rapid CAMAC data handling in FORTRAN real time programs. (F51). 477545
- standardization**
Mechanical modular system of 3rd generation instruments. (E42). 477448
- uses**
Single-crate stand-alone CAMAC control system for a negative ion source test facility. (E16). 480468
- CAMBIUM:**
See *MERISTEMS*
- CAMERA TUBES:**
See also *VIDICONS*
- streak photography**
Streak camera tube. (A14). 481192
- CAMERAS:**
See also *GAMMA CAMERAS; POSITRON CAMERAS*
- orientation**
A source of systematic error when measuring the focal spot sizes of Roentgen tubes with pinhole cameras. (D14, C61). 487791
- performance**
Framing-camera tube developed for sub-100-ps range. (A14). 471599
- performance testing**
Dynamic range studies of the RCA streak tube in the LLL streak camera. (E42). 461893
- radiation detectors**
Collimator for a radiation detection camera. (E41). 477355
- x radiation**
A high temperature focusing X-ray powder camera with new features. (E41). 474081
- CAMP:**
See *AMP*
- CANADA:**
See also *NORTHWEST TERRITORIES; NOVA SCOTIA; ONTARIO*
- energy policy**
What's ahead for Canada in energy supply (question mark). (F11). 461990
- nuclear energy**
Uncertainties in financing nuclear power growth in Canada. (F11). 495239
- nuclear power**
Nuclear power in Canada. (E34). 463655
- nuclear power plants**
Use of four-tier quality standards for cost effective procurement in Ontario Hydro. (F11; Nuclear power plants). 474333
- nuclear trade**
Build your own Candu reactor. (E34; the marketing of Canadian reactors). 461735
- public relations**
Pickering education centre aids nuclear acceptance. (C52). 476675
- research programs**
Canada's fusion future: a special report on R and D activities in Canada and abroad. (A14). 459959
- Fusion research: the ultimate energy source (question mark). (A14). 459944
- spent fuel storage**
Canadian experience with wet and dry storage concepts. (E52, E15). 495223
- uranium ores**
Foreign exploration. (B31). 476471
- CANADA NRX RESEARCH REACTOR:**
See *NRX REACTOR*
- CANADA-INDIA REACTOR:**
See *CIRUS REACTOR*
- CANADIAN NRU REACTOR:**
See *NRU REACTOR*
- CANADIAN ORGANIZATIONS:**
See also *ATOMIC ENERGY OF CANADA LTD; CHALK RIVER NUCLEAR LABS*
- CANALS (WATERWAYS):**
See *INLAND WATERWAYS*
- CANBERRA TOKAMAK:**
See *LT-3 TOKAMAK*
- CANCER:**
See *NEOPLASMS*
- CANDIDA:**
- antibodies**
Determination of antibody levels to Candida albicans in healthy and hospitalised adults using a radioimmunoassay. (C62). [Data] 473414
- radioimmunoassay**
A radioimmunoassay method for the rapid detection of Candida antibodies is experimental systematic candidiasis. (C45). 479995
- CANDU TYPE REACTORS:**
(Thermal power reactors of Canadian design characterized by heavy water moderator, pressure tube construction, and on-power refuelling.)
See also *GENTILLY REACTOR; GENTILLY-2 REACTOR; RAJASTHAN-1 REACTOR; RAJASTHAN-2 REACTOR*
- calandrias**
Analysis of the interaction of fuel channels with the end shields in CANDU reactors. (E34). 488112
- cladding**
Zirconium-niobium alloys as fuel cladding for water cooled reactors. (E33). [Data] 491923
- cost**
Nuclear power in Canada. (E34). 461732
- forecasting**
Nuclear power in Canada. (E34). 461732
- fuel cycle**
High burnup from natural uranium - the Candu experience. (E34). 473943
- Prospects for future CANDU fuel cycles. (E34, F12, B31). 491947
- fuel densification**
Densification algorithm for irradiated UO₂ fuel. (B25, B23). 472753
- fuel elements**
CANDU fuel. The influence of design on fuel performance. (E33). 491918
- fuel rods**
Demonstration of fuel resistant to pellet-cladding interaction. Phase I. Final report. (E31, E32, E34). 488051
- fuel-cladding interactions**
Demonstration of fuel resistant to pellet-cladding interaction. Phase I. Final report. (E31, E32, E34). 488051
- load management**
A study of load-following capability of a CANDU-PHW reactor. (F11, E34). 485186
- loss of coolant**
Candu moderator provides ultimate heat sink in a LOCA. (E34). 470735
- low-level radioactive wastes**
Operation of low-level radioactive waste incinerator. (E51). 480833
- nuclear trade**
Build your own Candu reactor. (E34; the marketing of Canadian reactors). 461735
- The CANDU story. (E34). 461738
- on-line control systems**
Direct digital control in CANDU nuclear power plants -maximum utilisation of a dual redundant mini-computer system. (E24, E34). 494920
- performance**
The Canadian nuclear power program. (E34, C52). 461736
- power distribution**
Commissioning and early operating experience of the Bruce A flux-mapping system. (E33, E24). 477258
- pressure tubes**
Analysis of the interaction of fuel channels with the end shields in CANDU reactors. (E34). 488112
- Candu pressure tubes - production and properties. (E34). 491945
- Irradiation response of the ordered phase Zr₃Al. (B25, E34; Fast neutrons). 465717
- pumps**
Development testing of a pocket-type, hydrostatic rotary end face seal in high-pressure water. (E34, B22). 480668
- radiation protection**
Estimate of man-rem expenditures for a mature CANDU 600 MW(e) station. (C54, E34). 491222
- radioactive effluents**
Environmental aspects of tritium from CANDU station releases. (C52). 491145
- radioactive waste processing**
Evaluation of liquid radioactive waste treatment systems for candu-phw reactors. (C52, E34). 469927
- reactor accidents**
Analysis of a hypothetical dump transient for a CANDU reactor. (C52). 482235
- reactor control systems**
Commissioning and early operating experience of the Bruce A flux-mapping system. (E33, E24). 477258
- Control algorithm for reactor spatial control during nuclear station load cycling. (E24, E34). 480608
- Experience in the commissioning and maintenance of control instrumentation at Rajasthan Atomic Power Station. (E33, E24). 480660
- reactor cores**
Theoretical variations in the concentration of tritium in the heavy water in CANDU reactors caused by the ³He(n,p)³H reaction. (E34). 491948
- reactor fueling**
Pressure tube type reactor. (E34). 470729
- reactor operation**
High burnup from natural uranium - the Candu experience. (E34). 473943
- specifications**
Evolution of CANDU reactor design. (E34). 494972
- spent fuel storage**
Air cooled storage of Candu fuel. (E15). 476931
- stress analysis**
Analysis of the interaction of fuel channels with the end shields in CANDU reactors. (E34). 488112
- technology transfer**
Experience with the export of nuclear power plants. (F61, E34). 495310
- Technology transfer. Its contribution to the Canadian nuclear industry. (F61). 463859

- thorium cycle**
Characteristics of plutonium-topped thorium cycles in heavy-water-moderated pressure tube reactors. (E34). 488110
- tritium**
Environmental aspects of tritium from CANDU station releases. (C52). 491145
- tubes**
AECL devises new nuclear tube welding system. (E42, E34). 474146
Thin-walled large-diameter zirconium alloy tubes in CANDU reactors. (E34, B25). 491953
- water chemistry**
Some aspects of primary and secondary water chemistry in CANDU reactors. (E34). 491950
- zirconium alloys**
Zirconium-niobium alloys as fuel cladding for water cooled reactors. (E33). [Data] 491923
- CANONICAL EQUATIONS:**
See *DIFFERENTIAL EQUATIONS*
- CANONICAL QUANTUM FIELD THEORY:**
See *LAGRANGIAN FIELD THEORY*
- CANONICAL TRANSFORMATIONS:**
See also *FOLDY-WOUTHUYSEN TRANSFORM*
- CAPACITORS:**
- physical radiation effects**
Dynamic model for e-beam irradiation of MOS capacitors. (B25). 490718
- power supplies**
Remote controlled capacitor charging H.V. power supply. (A14). 492792
- CAPILLARIES:**
- biological radiation effects**
Computer-aided analysis of capillary damage dynamics following local brain irradiation. (C14). 463172
- biological recovery**
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 487210
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 476554
- delayed radiation effects**
Cardiac injury in the aged mouse: comparative ultrastructural effects of fission spectrum neutrons and γ rays. (C14; Comparison affects at 18 and 24 months following acute or fractionated sublethal exposures). 490972
- early radiation effects**
Irradiation of the microvasculature with fast neutrons. (C14; RBE for capillary damage following canine corneal irradiation). 490951
- mathematical models**
Mathematical modelling of capillary wall implication in bone and soft tissue radionuclide kinetics. (C21). 466215
- permeability**
Use of ^{125}I or ^{131}I Evans blue in the evaluation of capillary permeability increase in rat skin. (C62). 482437
- radiation injuries**
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 487210
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 476554
- radiosensitivity**
Increased radiosensitivity of cerebral capillaries in neonatal Gunn rats as compared to Sprague-Dawley rats. (C14). 494299
Increased radiosensitivity of cerebral capillaries in neonatal Gunn rats as compared to Sprague-Dawley rats. (C14). 494299
Use of ^{125}I or ^{131}I Evans blue in the evaluation of capillary permeability increase in rat skin. (C62). 482437
- CAPSICUM:**
- genetic radiation effects**
Radiogenetic effect of gamma irradiation under different ontogenetic states of sweet pepper. (C13). 472937
- CAPSULES:**
- production**
Production of Na^{24}I capsules in the Bandung Reactor Center. (D13). 470238
- CAPSULES (IRRADIATION):**
See *IRRADIATION CAPSULES*
- CAPTURE:**
(For capture cross sections, see also *INTEGRAL CROSS SECTIONS*)
See also *ELECTRON CAPTURE*
- angular distribution**
Angular distributions in photonucleon and nucleon radiative capture reactions. (A33). 490083
- cross sections**
Measurement of neutron capture cross sections with Fe-filtered beam. (A34). [Data] 475859
- isovectors**
Fast neutron capture and the microscopic isovector optical potential. (A33). 490054
- optical models**
Fast neutron capture and the microscopic isovector optical potential. (A33). 490054
- polarization**
A relativistic effect of deuteron on the photon circular polarization in $\text{np} \rightarrow \text{dy}$ process. (A33). 462616
- CARBAMATES:**
See also *DEDTC*
- CARBAMIDE:**
See *UREA*
- CARBIDES:**
See also *BORON CARBIDES; CEMENTITE; CHROMIUM CARBIDES; DYSPROSIUM CARBIDES; GADOLINIUM CARBIDES; HAFNIUM CARBIDES; LANTHANUM CARBIDES; LITHIUM CARBIDES; LUTETIUM CARBIDES; MOLYBDENUM CARBIDES; NEODYMIUM CARBIDES; NIOBIUM CARBIDES; PLUTONIUM CARBIDES; PRASEODYMIUM CARBIDES; SILICON CARBIDES; TANTALUM CARBIDES; THORIUM CARBIDES; TITANIUM CARBIDES; TUNGSTEN CARBIDES; URANIUM CARBIDES; VANADIUM CARBIDES; ZIRCONIUM CARBIDES*
- fuels**
Dominant factors in carbide fuel swelling. (A12). [Data] 467291
- lattice parameters**
Dependence of atomic volumes of the intermediate phases on concentration in double-component systems and evaluation of the atomic volume of metallic hydrogen. (B22; Nb-Pd, Ta-Pd, V-Pt, V-Si, Nb-Si, Ta-Si, Zr-C, Hf-C, Ta-C, Nb-C, W-C, Mo-C, V-C, Zr-H, Ti-H, Nb-H, V-H, Ni-H). 476314
- point defects**
Carbides, nitrides. (A13; point defects). 489038
- spent fuels**
Method for the conversion of monophase uranium-plutonium monocarbide in $(\text{UpU})\text{O}_2$ contained in irradiated nuclear fuel. (B16). 468619
- work functions**
Studies on thermionic emission and structure transformations in W and Mo alloys with group 4sup(a) transition metal carbides in the process of long-term testing. (B23; Cathodes of TiC-W, TiC-Mo, ZrC-W, ZrC-Mo, HfC-W, HfC-Mo alloys were tested). 494078
- CARBINOL:**
See *METHANOL*
- CARBOHYDRATES:**
See also *ARABINOSE; CELLULOSE; CHITIN; DEXTRAN; DIGOXIN; GLUCOSE; GLYCOLIPIDS; GLYCOPROTEINS; HAPTOGLOBINS; HEPARIN; HEXOSAMINES; LH; LIPOPOLYSACCHARIDES; MANNOSE; MUCOPOLYSACCHARIDES; NITROCELLULOSE; OVALBUMIN; PECTINS; PHYTOHEMAGGLUTININ; POLYSACCHARIDES; RAYON; SACCARIDES; SACCAROSE; STARCH*
- chemical radiation effects**
Transformations of radiolysis products during irradiated carbohydrates dissolution. (B14, B11). 479227
- electron spin resonance**
ESR - ENDOR study of α irradiated single crystals of α -methyl-D-glucopyranoside. (A12). [Data] 464037
- endor**
ESR - ENDOR study of α irradiated single crystals of α -methyl-D-glucopyranoside. (A12). [Data] 464037
- lyoluminescence**
Lyoluminescence of irradiated carbohydrates. Induced emission from diphenylisobenzofuran. (B14, E41). 460593
- radiolysis**
On mechanism of radiation breakdown of phosphoester bond. (B14). 479144
- structural chemical analysis**
Application of ab initio molecular orbital calculations to the structural moieties of carbohydrates. 5. The geometry of the hydrogen bonds. (B12). [Data] 490391
- CARBON:**
See also *ACTIVATED CARBON; DIAMONDS; GRAPHITE; PYROLYTIC CARBON*
- Aqueous slurry erosion in some cobalt base superalloys. (B15). 469002
- Carbon and graphite. Part 3. Graphite - physical, mechanical, and structural studies (a bibliography with abstracts). Report for 1964 - August 1978. (B24, E22). 472726
- Development of Co-free Ni-base superalloy for HTGR. (E33, B22). 470701
- Effect of carbon content and thermal treatment on the SCC behavior of Inconel Alloy 600 steam generator tubing. (B22, E32). 472619
- Influence of thermal treatment on the SCC behavior of inconel alloy 600 at controlled potentials in 10% caustic soda solutions at 315 C. (B15, E32). 472563
- Tensile, creep, and creep-rupture studies on 2 1/4 Cr-1 Mo steel. (B22, E35). 460724
- activation analysis**
Contribution of nuclear analysis methods to the certification of BCR reference materials for non-metals in non-ferrous metals. (B11). 483993
- The determination of carbon in the refractory metals zirconium, niobium, tantalum and tungsten by instrumental deuterium activation analysis. (B11). 484011
- Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- Rapid and non-destructive determination of vanadium in carbons by the neutron activation analysis using gadolinium as an internal standard material. (B11; Neutron reactions). [Data] 490291
- adsorption**
Molecular wake-shield precursor experiment. Final report, July 1, 1978 - December 31, 1978. (B22). 465646
- Soft X-ray appearance potential spectroscopy of C, N and O adsorbed on Cr, Mo and W. (A13). 459817
- alpha reactions**
Fragmentation of relativistic light nuclei: longitudinal and transverse momentum distributions. (A22, A34; 0.93 to 2.88 GeV/c, cross sections, limiting fragmentation). 468152
- Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194
- antiproton reactions**
Production of muon pairs by 225-GeV/c π^+ , K^+ , p^+ beams on nuclear targets. (A22). 478512

| | |
|---|--------|
| argon 40 reactions | |
| Fragmentations of ^{40}Ar at 213 MeV/nucleon. (A34). | 468571 |
| atom collisions | |
| Temperature dependence of the beam-foil interaction. (A12). | 467205 |
| autoradiography | |
| ^{14}C -labelled carbon determination in steels by quantitative autoradiography. (B11). [Data] | 475892 |
| beam strippers | |
| The behaviour and physical characteristics of carbon stripper foils prepared by different methods. (B24, B25). | 490702 |
| The enhancement of the lifetime of carbon stripper foils under heavy ion bombardment. (E16). | 473664 |
| The lifetime under irradiation of carbon stripper foils made by cracking hydrocarbons. (B25, B24). | 490709 |
| charged-particle activation an | |
| Comparative determination of carbon in silicon by activation with ^3He -ions. (B11). | 486489 |
| charged-particle transport | |
| Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] | 472125 |
| Electronic stopping cross sections of 50–300-keV He and Li ions. (A32). | 478590 |
| chemical vapor deposition | |
| Large-area boron and carbon scatterers and filters. (B24). | 479528 |
| coatings | |
| In situ first wall coating by discharge vapor deposition. (A14). | 475121 |
| contamination | |
| Grain boundary segregation of sulfur and nitrogen in sintered molybdenum. (B22). | 469311 |
| cosmochemistry | |
| Relative abundances in metal-poor stars. II. The carbon-to-iron ratio. (A15). | 475377 |
| cross sections | |
| A calculation of neutron cross-sections for the elements hydrogen, carbon, nitrogen and oxygen in the energy range 20 – 50 MeV. (A31, A33). [Data] | 472098 |
| deposition | |
| Carbon deposition on target in beam bombarding. (A12). [Data] | 488912 |
| deuteron reactions | |
| Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). | 468194 |
| distillation | |
| Isotropic and high density carbon made from carbonaceous powder prepared by distillation under reduced pressure. (B24). [Data] | 472722 |
| electron-atom collisions | |
| Comment on a recent fast beam measurement of the electron impact ionisation cross sections of He, C, O and N atoms. (A12). | 488867 |
| Electron energy calibrations in the Culham crossed-beams experiments: a reply to the letter of Maerk and de Heer. (A12). | 488820 |
| Measurements of the electron impact ionisation cross sections of He, C, O and N atoms. (A12, A14). | 462102 |
| electronic structure | |
| Atomic coreless Hartree–Fock pseudopotential for atoms Li through Ne. (A17). [Data] | 464736 |
| electrons | |
| Determination of partial and total scattering cross-sections for high energy electrons in the range 1.2–3 MeV. (A32). | 483719 |
| energy spectra | |
| An m-representation approach to atomic structure: application to C I, N II, O III, F IV and Ne V. (A12). | 471365 |
| environment | |
| Terrestrial Ecology Section. (C52). | 480073 |
| heavy ion reactions | |
| Approach to equilibrium based on microscopic models of nuclear collisions. (A33, A22; Yield ratios, differential cross sections). | 468330 |
| Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). | 468200 |
| Tables of light-fragment inclusive cross sections in relativistic heavy ion collisions. Part I. C + C, C + Pb, Ne + NaF, Ne + Cu, Ne + Pb $\rightarrow \pi^+$, p, d, t, ^3He ; E/sub BEAM/ = 800 MeV/A. (A33, A34; 800 MeV/A). [Data] | 478653 |
| ion beams | |
| The energy-angle distribution of heavy particles penetrating solids experimental test of the Meyer-Klein-Wedell theory for Ne and Ar ions in carbon below 250 keV. (A13). | 474708 |
| ion collisions | |
| Temperature dependence of alignment production in He I by beam-foil excitation. (A12). | 474582 |
| ion-atom collisions | |
| Influence of retardation on the angular distribution of radiative electron capture. (A12). | 477823 |
| Projectile Auger spectra of gas- and foil-excited oxygen ions at MeV energies. (A12). | 463956 |
| Reactions of ions with atomic and molecular free radicals. Progress report, May 1, 1978–April 30, 1979. (A12; Summaries of research activities at Univ. of Minnesota). | 477744 |
| ionization | |
| Measurements of the electron impact ionisation cross sections of He, C, O and N atoms. (A12, A14). | 462102 |
| iron 56 reactions | |
| Fragmentation of relativistic ^{56}Fe . (A34). | 478784 |
| isotope effects | |
| Some regularities in isotopic changes of light and intermediate nucleus shape. (A34). | 493439 |
| isotope ratio | |
| Isotopic analysis of carbon and nitrogen by means of a 2 MV van de Graaff. (B11). | 493493 |
| kaon neutral reactions | |
| K/sub L/-nucleus total cross sections between 30 and 150 GeV: Quantitative evidence for inelastic screening. (A22). | 481437 |
| Precise coherent K/sub S/ regeneration amplitudes for C, Al, Cu, Sn, and Pb nuclei from 20 to 140 GeV/c and their interpretation. (A22). | 481438 |
| kaon plus reactions | |
| Production of muon pairs by 225-GeV/c π^+ , K^+ , p^+ beams on nuclear targets. (A22). | 478512 |
| materials testing | |
| Assessment of carbon and silicon carbide as first wall materials in inertial confinement fusion reactors. (A14). | 475041 |
| metallurgy | |
| Study of carbon-substituted EuB_6 . (B23). | 494069 |
| molecule-molecule collisions | |
| Carbon reaction studied by crossed molecular beams. (A12). | 474607 |
| muon reactions | |
| Energy spectra and asymmetry of emission of charged particles when negative muon is captured by nuclei. (A34). | 493361 |
| Energy spectra and asymmetry of charged particle emission in the muon minus capture by nuclei. (A34, A33). | 478698 |
| neutron leakage | |
| Application of pulsed neutron technique for integral neutron cross-section tests in the MeV range. (A31). | 478580 |
| nuclear reaction analysis | |
| Application of the thermal (n, γ) reaction to elemental analysis. (B11). | 468630 |
| Carbon and nitrogen determination in Zr by photon or proton activation analysis. Comparison between the results obtained by this method and other analytical techniques. (B11). | 465268 |
| The role of nuclear methods in the study of surface compositions. Their use in the Community Bureau of Reference (BCR). Project on 'RMs for non-metals in non-ferrous metals'. (B11). [Data] | 490307 |
| optical properties | |
| The fabrication of multilayer X-ray mirrors. (E42). [Data] | 495172 |
| oscillator strengths | |
| An m-representation approach to atomic structure: application to C I, N II, O III, F IV and Ne V. (A12). | 471365 |
| photon activation analysis | |
| Determination of carbon in zirconium by photon activation. (B11). [Data] | 493495 |
| photon-atom collisions | |
| Calculating Rayleigh scattering amplitudes from 100 eV to 10 MeV. (A12; 100 eV to 10 MeV). [Data] | 477808 |
| Photoelectric cross sections derived from the total absorption cross sections in the energy range 5–130 keV. (A32). [Data] | 460269 |
| Rayleigh scattering amplitudes for neon and carbon: 100 eV to 30 keV. (A12; Total and differential cross sections, scattering amplitudes). [Data] | 477807 |
| photonuclear reactions | |
| Measurement of shadowing in photon-nucleus total cross sections from 20 to 185 GeV. (A22). | 475663 |
| physical radiation effects | |
| Surface damage of TiB_2 and C coatings under energetic D^+ and $^4\text{He}^+$ irradiations. (A14, B25). [Data] | 485750 |
| pion minus reactions | |
| Deuteron emission from $\text{C}_2\text{N}_2\text{O}$ nuclei in the (π^- , π^-d) reactions at 170 MeV. (A34, A33). | 493367 |
| Emission of low energy charged particles following nuclear pion capture. (A34; Rates). | 460360 |
| Emission of low-energy charged particles following negative-pion capture from rest. (A34). | 468557 |
| Measurement of inclusive muon pair production by 225-GeV/c π^+ , π^- , and proton beams with a large acceptance spectrometer. (A22; Cross sections, charm pair production upper limit). | 460226 |
| True absorption and scattering of 125-MeV pions on nuclei. (A34). | 490210 |
| pion plus reactions | |
| Deuteron emission from $\text{C}_2\text{N}_2\text{O}$ nuclei in the (π^+ , π^+d) reactions at 170 MeV. (A34, A33). | 493367 |
| Low-energy pion scattering. (A34; 50 MeV, differential cross sections). | 468473 |
| Measurement of inclusive muon pair production by 225-GeV/c π^+ , π^- , and proton beams with a large acceptance spectrometer. (A22; Cross sections, charm pair production upper limit). | 460226 |
| Production of muon pairs by 225-GeV/c π^+ , K^+ , p^+ beams on nuclear targets. (A22). | 478512 |
| True absorption and scattering of 125-MeV pions on nuclei. (A34). | 490210 |
| polarization-asymmetry ratio | |
| Measurement of D and P polarization parameters in pp-scattering at 0.97 GeV. (A22, A21). | 464917 |
| proton reactions | |
| Measurement of inclusive muon pair production by 225-GeV/c π^+ , π^- , and proton beams with a large acceptance spectrometer. (A22; Cross sections, charm pair production upper limit). | 460226 |
| Momentum spectra of secondary protons from pp, pd and pC collisions at 4.3, 6.3 and 8.9 GeV/c. (A34, A22). | 478696 |
| Production of muon pairs by 225-GeV/c π^+ , K^+ , p^+ beams on nuclear targets. (A22). | 478512 |
| Proton polarization in inclusive processes at 100–400 GeV. (A22). | 486150 |
| Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). | 468194 |

- pulsed neutron techniques**
Application of pulsed neutron technique for integral neutron cross-section tests in the MeV range. (A31). 478580
- pyrolysis**
Low-temperature thermal conductivity of a reticulated glassy carbon. (E12). 487835
- quantitative chemical analysis**
The determination of traces of O, N and C in the refractory metals Mo and W - and international effort. (B11). 493524
The determination of boron and carbon in reactor grade boron carbide. (B11). 472336
Evaluation of methods for cleaning low carbon uranium metal and alloy samples. (B13). 493767
On the use of low energy tritons and protons for dosing carbon, oxygen and fluorine on metals surface. (B11). 483951
- radiation effects**
Carbon deposition on target in beam bombarding. (A12). [Data] 488912
- radiation protection**
Difference in the mechanism of radioprotection between carbon particles and bacterial endotoxin. (C14). 472971
- rayleigh scattering**
Rayleigh scattering amplitudes for neon and carbon: 100 eV to 30 keV. (A12; Total and differential cross sections, scattering amplitudes). [Data] 477807
- segregation**
Grain boundary segregation of sulfur and nitrogen in sintered molybdenum. (B22). 469311
- sputtering**
Measurements of sputtering yields for low-energy plasma ions. (A14). 475107
- stopping power**
Critical analysis of the modified Firsov model. Sensitivity to the choice of atomic wavefunctions. (A13). 481086
Energy loss, angular distributions and charge fractions of low energy hydrogen transmitted through thin carbon foils. (B25, A14). [Data] 494157
- structural chemical analysis**
Positron annihilation in carbon structures. (A13). 462159
- trapping**
Model for hydrogen isotope backscattering, trapping and depth profiles in C and a-Si. (A14). 471625
- CARBON ADDITIONS:**
See also more specific entries as listed in the INIS Thesaurus.
- aging**
Effect of cold deformation by hydrostatic extrusion on the Mo-0.63% Zr - 0.06% C alloy aging. (B22). 484234
- CARBON BURNING:**
(Astrophysical processes only.)
- convection**
Thermal oscillations during carbon burning in an electron-degenerate stellar core. (A15). 467834
- nucleosynthesis**
Isotopic anomalies from neutron reactions during explosive carbon burning. (A15). 485899
- oscillations**
Thermal oscillations during carbon burning in an electron-degenerate stellar core. (A15). 467834
- CARBON COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- ion-molecule collisions**
Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
- nuclear magnetic resonance**
NMR isotope shifts and the structures of carbocations. (B12). 486613
- CARBON DIOXIDE:**
- absorption**
Removal of ^{14}C -contaminated CO_2 from simulated LWR fuel reprocessing off-gas by utilizing the reaction between CO_2 and alkaline hydroxides in either slurry or solid form. (E51, B16). 480837
- adsorption**
Chemisorption of carbon monoxide, carbon dioxide and oxygen on the Mo(100) surface. (B22). 460709
The influence of an electron beam on the adsorption of CO and CO_2 onto a Ni(110) surface. (A13). 459837
Krypton adsorption in liquid CO_2 (KALC): effects of the minor components N_2 , CO, and Xe. (E51, B16). 461918
- binary mixtures**
On the application of a proportional counter to continuous monitoring of ^{222}Rn concentration in the study of thermal diffusion in Rn- CO_2 mixture. (E41, B11). 485115
- biochemistry**
Biosphere as a source and/or a sink for carbon dioxide. (C52). 473248
- chemical reaction yield**
Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
Non-Arrhenius behavior in bimolecular reactions of the OH radical. (B14, B12). 462797
- chemical reactions**
Intermolecular energy transfer effects in thermal unimolecular reactions. (B12). 460534
Studies of gas phase reactions of uranium with selected oxidizers and fluoromethanes. (B13, A12). [Data] 472485
- chemisorption**
Chemisorption of carbon monoxide, carbon dioxide and oxygen on the Mo(100) surface. (B22). 460709
Heats of chemisorption of O_2 , H_2 , CO, CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- control**
Analysis of stirred-tank carbonation reactors. (E51, B16; Removal of $^{14}\text{CO}_2$ by reaction with $\text{Ca}(\text{OH})_2$). [Data] 495200
- corrosion**
High-temperature oxidation of iron, Fe-0.5 wt. % Al and Fe-1 wt% Al alloys in CO_2 at atmospheric pressure. (B15). 490508
- dielectric properties**
Microscopic acceleration physics. I. Discussion of important physical phenomena in the tank insulating gas mixture. (E16, A10). 477059
- ecological concentration**
Preliminary comparison of MP sparking characteristics for SF_6 insulating gas mixtures and pure SF_6 . (E16). 494810
- electron-molecule collisions**
Balance of the tropospheric ozone and its relation to stratospheric intrusions indicated by cosmogenic radionuclides. Technical progress report, 1 November 1977 - 30 June 1978. (C52, B33; ^7Be , ^{32}P , ^{33}P). 473253
- energy levels**
Dissociative excitation of CO_2 by electron impact: Translational spectroscopy of O fragments. (A12). [Data] 464080
High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
- electronic structure**
Theoretical studies of atmospheric triatomic molecules. New ab initio results for the $^1\text{Pi}/\text{sub g}^- - ^1\Delta/\text{sub u}^-$ vertical state ordering in CO_2 . (A10). 466993
- environment**
Ecosystem Studies Program. (C52). [Data] 480160
What role can simulation model predictions play in environmental decisions: carbon dioxide as an example. (C52). 487473
- gas analysis**
Electron capture detection of sulphur gases in carbon dioxide at the parts-per-billion level. (B11). 468656
- glow discharges**
Emission mechanism of auroral green line in the xenon glow discharge containing carbon-dioxide gas. (A12). 471406
- intermolecular forces**
Determination of intermolecular forces at moderately high temperatures. (A12). 471374
- ion-atom collisions**
Electron capture into the $n = 3$ states of hydrogen by proton impact on CO, CO_2 , and N_2O . (A12). 474616
Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). [Data] 464012
- ion-molecule collisions**
Charge transfer reactions of ground $\text{N}^+(\text{P})$ and excited $\text{N}^+(\text{D})$ state ions with neutral molecules. (A12). 467266
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- ionization**
The total ionization of low energy ions in a tissue equivalent gas and its component gases: absolute measurements. (C55, A12). [Data] 473319
- isotope ratio**
Preliminary results of the study of isotopic fractionation during chemical purification of carbon dioxide for radiocarbon dating. (B13). [Data] 493777
- isotopic exchange**
Experimental evidence for oxygen isotope exchange between CO_2 molecules, adsorbed in a NaY zeolite at 0°C . (B12). 490382
The oxygen exchange from $\text{O}_2/\text{C}^{18}\text{O}_2$ with surfaces of vanadium pentoxide and alkali metal-promoted vanadium pentoxide catalysts. (B12). 460462
- line broadening**
Pressure broadening of the dipole and Raman lines of CO_2 by He and Ar. Temperature dependence. (A12). [Data] 464063
- liquid scintillation detectors**
A simple method for measuring low activities of $^{14}\text{CO}_2$. (B11). 465250
- measuring methods**
Spectroscopic technique for measuring atmospheric CO_2 . (C52). 480153
- meteorology**
 ^{13}C -record in annual rings - development of a model of the CO_2 increase in the past. (B33). 481954
- molecule collisions**
Classical perturbation theory of good action-angle variables. Applications to semiclassical eigenvalues and to collisional energy transfer in polyatomic molecules. (B12). 486658
- molecule-molecule collisions**
Vibrational relaxation HF ($v=3,4$) by H_2 , D_2 , and CO_2 . (A12). 467191
- monitoring**
Trends in other species. (C52). 487552
- phase transformations**
Gravity effects in fluids near the gas-liquid critical point. (A13). 485625
- radioassay**
 CO_2 production in animals: analysis of potential errors in the doubly labeled water method. (C31; ^3H and ^{14}O). 466253
- radiolysis**
Febetron radiolysis of CO_2 in the presence of oxygen and carbon monoxide. (A32). 475697

- Kinetics and mechanism of formation of carbon monoxide and hydrogen during radiolysis of carbon dioxide and methane mixture. (B14). 479214
- Paramagnetic species in irradiated organic glasses. 2. Formation and decay of tetramethylethylene radical cations and effects of some additives on free-radical yields. (B14). 465460
- reduction**
- An investigation of the reduction of carbon dioxide in a silent electric discharge. Final report. (B12). 468794
- specific heat**
- Gravity effects in fluids near the gas-liquid critical point. (A13). 485625
- thermal diffusion**
- On the application of a proportional counter to continuous monitoring of ^{222}Rn concentration in the study of thermal diffusion in Rn-CO_2 mixture. (E41, B11). 485115
- townsend discharge**
- Experimental and theoretical study of the electron cascade induced in a gas by laser light. (A12). 471360
- CARBON DIOXIDE COOLED REACTORS:**
- See also DUNGENESS-B REACTOR; HINKLEY POINT-A REACTOR; HINKLEY POINT-B REACTOR; HUNTERSTON-B REACTOR
- france**
- Gas cooled reactor experience and programs in France. (E33). 482778
- CARBON DIOXIDE LASERS:**
- alignment**
- Use of the smartt interferometer as an alignment tool for infrared laser systems. (A14). 471740
- atom-molecule collisions**
- Theoretical analysis of inelastic molecular collisions: applications to atom-diatom systems relevant to laser operation. (A12; Cross sections, relaxation rates). 485440
- beam monitors**
- Design of HELIOS beam diagnostics. (A14). 485803
- beam-plasma systems**
- Radiation field induced perturbations in CO_2 laser plasmas. (A14). 489117
- Radiation field induced perturbations in CO_2 laser plasmas. (A14). 489341
- chemical reaction kinetics**
- Infrared laser-induced chemical reactions. (B12). 490358
- efficiency**
- Increasing efficiency of CO_2 laser systems for the controlled thermonuclear fusion. (A14). 478177
- electromagnetic radiation**
- High efficiency phase-conjugate reflection in germanium and in inverted CO_2 . (A14). 467508
- electron sources**
- Pulsed cold cathode electron beam gun for laser application. (A14). 471690
- frequency converters**
- Tripling of CO_2 laser radiation in DBR, DCL and Se. Final technical report, 1 May 1977-31 Jan 1979. (A14). 492848
- glow discharges**
- CO_2 laser with metallic discharge tube. (A14). 471617
- heat pipes**
- Heat pipes and their applications to laser refrigeration systems. (A14). 471704
- inertial confinement**
- Recent progress in inertial confinement fusion research at the Los Alamos Scientific Laboratory. (A14). 483387
- laser implosions**
- "TIR-1" CO_2 -laser system for the research in the laser thermonuclear fusion. (A14). 477977
- laser-radiation heating**
- Experience with the Los Alamos 10 TW eight beam system. (A14). 478115
- operation**
- Theoretical analysis of inelastic molecular collisions: applications to atom-diatom systems relevant to laser operation. (A12; Cross sections, relaxation rates). 485440
- optical systems**
- Optical design and analysis of carbon dioxide laser fusion systems using interferometry and fast Fourier transform techniques. (A14). 485827
- performance**
- High power (approx. 10 GW) short pulse (less than or equal to 1 ns) CO_2 TEA amplifier. (A14). 462303
- plasma production**
- Pulsed- CO_2 -laser interaction with aluminum in air: Thermal response and plasma characteristics. (A14). 485772
- pulse shapers**
- Tripling of CO_2 laser radiation in DBR, DCL and Se. Final technical report, 1 May 1977-31 Jan 1979. (A14). 492848
- refrigeration**
- Heat pipes and their applications to laser refrigeration systems. (A14). 471704
- research programs**
- High-energy, short-pulse, carbon-dioxide lasers. (A14). 489153
- screens**
- Thermosensitive screens for the observation of infrared beams. (A14). 471638
- uses**
- Resonantly enhanced four-wave mixing. (D13; Patent). 470227
- welding machines**
- Welding of copper silicon and zirconium II using the 1200 watt CO_2 continuous laser. (E42). 461888
- CARBON FLUORIDES:**
- chemical radiation effects**
- Degradation of graphite fluoride by γ -ray irradiation. (B14). [Data] 476188
- high spin states**
- Theory of hyperfine and superfine levels in symmetric polyatomic molecules. Trigonal and tetrahedral molecules: Elementary spin-1/2 cases in vibronic ground states. (A12). 488822
- hyperfine structure**
- Theory of hyperfine and superfine levels in symmetric polyatomic molecules. Trigonal and tetrahedral molecules: Elementary spin-1/2 cases in vibronic ground states. (A12). 488822
- physical radiation effects**
- Degradation of graphite fluoride by γ -ray irradiation. (B14). [Data] 476188
- CARBON IONS:**
- charge exchange**
- The effect of charge exchange reaction on carbon lines. (A15). 483424
- collisions**
- Cu K x-ray production as a function of projectile atomic number, energy, and incident charge state. (A12). 485448
- Energy straggling of 3-36-MeV ^{12}C ions in aluminium. (A12). 467187
- Secondary electron emission by energetic ions incident on metal surfaces. (A12). [Data] 477726
- electron detachment**
- Measurements of cross sections for detachment of electrons from C- and O- ions by electron impact. (A12). [Data] 462142
- electron-ion collisions**
- Electron-impact excitation of the beryllium isoelectronic sequence. (A12). 488807
- Excitation of ions of the lithium isoelectronic sequence in the relativistic Coulomb-Born approximation. (A12). 477718
- energy losses**
- Energy straggling of 3-36-MeV ^{12}C ions in aluminium. (A12). 467187
- Measurements of anti W for protons, helium-4 ions, and carbon-12 ions in tissue-equivalent gas. (A32; 0.15 to 2.8 MeV protons, 0.36 to 7.8 MeV He+, and 0.12 to 5.6 MeV C+). 460271
- ion-atom collisions**
- Charge-transfer cross sections for collisions of Li^+ , Be^{4+} , B^+ , and C^{4+} ions with atomic hydrogen. (A12). 477814
- The effect of charge exchange reaction on carbon lines. (A15). 483424
- Electron capture by 0.1-13 keV C^+ , N^+ and O^+ ions in H and H_2 . (A12). [Data] 462138
- Electron capture by slow multicharged ions in atomic and molecular hydrogen. (A12). 463970
- Systematics of the average L-shell ionization probability in K-shell ionizing collisions by light ions. (A12). 477840
- ion-molecule collisions**
- Electron capture by 0.1-13 keV C^+ , N^+ and O^+ ions in H and H_2 . (A12). [Data] 462138
- Light emission in collisions of C^+ ions with N_2 molecules. (A12). 471353
- Reactions of ions with atomic and molecular free radicals. Progress report, May 1, 1978-April 30, 1979. (A12; Summaries of research activities at Univ. of Minnesota). 477744
- ionization**
- Measured cross sections for ionisation of C^{3+} , N^{4+} and O^{5+} ions with contribution due to excitation-autoionisation. (A12). [Data] 471328
- let**
- Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- oxygen enhancement ratio**
- Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- photoionization**
- Partial photoionization cross sections and radiative recombination rate coefficients for Li-like ions - II. (A12). [Data] 485398
- Two-channel relativistic random-phase approximation applied to the photoionisation of helium- and beryllium-like ions. (A12). 474614
- rbe**
- Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- CARBON ISOTOPES:**
- See also CARBON 11; CARBON 12; CARBON 13; CARBON 14; CARBON 15
- isotope ratio**
- Extending radiocarbon dating. (E16). 476957
- mass spectroscopy**
- Extending radiocarbon dating. (E16). 476957
- CARBON METERS:**
- Apparatus for determining impurities in molten sodium. (B11). 481644
- CARBON MONOXIDE:**
- absorption**
- An inelastic electron tunneling spectroscopy study of the adsorption of CO on Rh. (A13). 459811
- adsorption**
- Chemisorption of carbon monoxide, carbon dioxide and oxygen on the Mo(100) surface. (B22). 460709
- ELS vibrational study of carbon monoxide adsorbed on the Cu(110) surface. (B22). 476348
- The influence of an electron beam on the adsorption of CO and CO_2 onto a Ni(110) surface. (A13). 459837
- Mobility of CO on the (110) plane of tungsten. (B22). 460701

- atom-atom collisions**
Angular momentum decoupling approximations and factorization in diatom-diatom scattering. (A12). 485449
- atom-molecule collisions**
Anisotropy of the repulsive intermolecular potential from rotationally inelastic scattering. (A12). 467302
Collisional dephasing of the Na 13d-13f transition using the Ramsey method of separated rf fields. (A12). 463987
Isotope shift in the bulge effect of molecular scattering. (A12). 488760
Scattering experiments with hydrogen atoms. II. A system of astrophysical interest: H+CO. (A12). 488781
Solution of the coupled equations of inelastic atom-molecule scattering for a single initial state. (A12). [Data] 464102
Theoretical analysis of inelastic molecular collisions: applications to atom-diatom systems relevant to laser operation. (A12; Cross sections, relaxation rates). 485440
Vibrational relaxation in He-CO and He-HF: a unitary distorted-wave approach. (A12). 459729
- chemical radiation effects**
Irradiation effects on the reaction of mixture of carbon monoxide and hydrogen, 1. (B14). [Data] 481737
- chemical reactions**
Absence of oscillations in the magnetic field dependence of the rate of carbonylation of nickel. (B12). 465296
Coordination chemistry study of a nickel surface. The chemistry of Ni(111) with triply bonded molecules. (B12). 472432
Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
Non-Arrhenius behavior in bimolecular reactions of the OH radical. (B14, B12). 462797
- chemisorption**
Chemisorption of carbon monoxide, carbon dioxide and oxygen on the Mo(100) surface. (B22). 460709
Dissociative chemisorption of CO on ruthenium. (B12). 460500
Evidence for substrate-mediated interaction between C and O upon chemisorption of CO on Mo. (A13). 459819
The geometric structure of carbon monoxide chemisorbed on the ruthenium (001) surface at low temperatures. (A13). 459842
Heats of chemisorption of O₂, H₂, CO, CO₂, and N₂ on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- cosmochemistry**
Carbon monoxide emission and the eta carinae stage of Nova NQ Vulpeculae. (A15). [Data] 464572
Carbon monoxide in the galaxy. (A15). 478252
CO and near IR observations of a filamentary cloud, L43. (A15). 475250
Galactic distribution of carbon monoxide: an out-of-plane survey. (A15). 460038
Gas distribution in the central region of the galaxy. II. Carbon Monoxide. (A15). 467863
Molecular hydrogen in globular clusters: a search for carbon monoxide. (A15). 475401
Molecular line studies of dark clouds with associated young stellar objects. (A15). 464632
Radio observations of interstellar CN toward diffuse clouds, dark clouds, black clouds, and circumstellar clouds. (A15; 113 GHz). 475169
- dissociation**
Dissociative chemisorption of CO on ruthenium. (B12). 460500
- electron-molecule collisions**
High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
Influence of resonances in the electron impact excitation function of CO b³Σ⁺ → a³Π⁺ radiation. (A12). 459714
Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
Positive-ionization decay on the carbon K-shell excited negative-ion resonance in CO. (A12). 483236
- emission spectra**
The analysis of the Herzberg system in the ¹³C¹⁶O and partly in the ¹²C¹⁶O molecules. (A12). 477765
- excitation functions**
Influence of resonances in the electron impact excitation function of CO b³Σ⁺ → a³Π⁺ radiation. (A12). 459714
- fischer-tropsch synthesis**
Effects of electron beam irradiation on gas mixture of carbon monoxide and hydrogen in the presence of solid catalysts. (B14). 481730
- galaxies**
Carbon monoxide observation in M31. (A15). 467787
- h2 regions**
CO observations of IC 5146. (A15). 464605
- inner-shell ionization**
Positive-ionization decay on the carbon K-shell excited negative-ion resonance in CO. (A12). 483236
- ion-atom collisions**
Electron capture into the n = 3 states of hydrogen by proton impact on CO, CO₂, and N₂O. (A12). 474616
Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). [Data] 464012
- ion-molecule collisions**
Charge transfer reactions of ground N⁺(³P) and excited N⁺(¹D) state ions with neutral molecules. (A12). 467266
Rotational-vibrational energy transfer in collisions of Li⁺ with N₂ and CO in the 1-10 eV range. (A12). 477792
- milky way**
Carbon monoxide in the galactic disk and nucleus. (A15). 467775
- molecular structure**
The analysis of the Herzberg system in the ¹³C¹⁶O and partly in the ¹²C¹⁶O molecules. (A12). 477765
- molecule-molecule collisions**
An ab initio potential energy surface for the study of CO-H₂ collisions at thermal energies. (A12). 483165
Temperature dependence of vibration-vibration energy exchange probabilities among highly excited levels: CO(γ-1)+CO(1)→CO(γ)+CO(0). (A12). 488902
- monitoring**
Trends in other species. (C52). 487552
- radiation chemistry**
Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (no. 11). (B14). 481728
- solar atmosphere**
CO emission lines in the solar atmosphere. (A15). 471846
- vibrational states**
Temperature dependence of vibration-vibration energy exchange probabilities among highly excited levels: CO(γ-1)+CO(1)→CO(γ)+CO(0). (A12). 488902
- CARBON NITRIDES:**
- critical current**
High field critical current densities and resistive transition of NbCN superconducting films. (B22). 490563
- electronic structure**
Valence full configuration interaction calculation of the CN⁺ ion. (A12). [Data] 474656
- excitation**
Formation of CN(B²Σ) by the electron impact dissociation of HCN. Measurements near threshold. (A12). 483206
- photoionization**
Multiphoton ultraviolet photodissociation of C₂N₂. (A12). [Data] 464006
- positron-ion collisions**
A comparison of the positron energy levels of [F⁺;e⁻] and [CN⁺;e⁻] with the Rydberg levels of Na and NO. (A12). 492540
- superconductivity**
High field critical current densities and resistive transition of NbCN superconducting films. (B22). 490563
- CARBON OXIDES:**
See also CARBON DIOXIDE; CARBON MONOXIDE
- photoelectron spectroscopy**
Coverage dependent photoelectron spectroscopy of CO chemisorption on Cu (111): evidence for two adsorption sites. (B12). 481670
- CARBON STARS:**
- energy spectra**
Carbon and nitrogen isotope ratios in carbon stars: A new approach. (A15). [Data] 464635
- infrared spectra**
An additional note on the ¹²C/¹³C ratio in carbon stars. (A15). 471810
- isotope ratio**
Carbon and nitrogen isotope ratios in carbon stars: A new approach. (A15). [Data] 464635
- photometry**
Photometry of some carbon stars in 1-2.5 μm range. (A15). 475323
- stellar atmospheres**
Circumstellar envelopes and the evolution of carbon stars. (A15). 460037
- CARBON STEELS:**
(Steels with carbon as the only alloying element.)
See also STEEL-ASTM-A106; STEEL-ASTM-A533-B
- albedo**
SAI/EPRI Albedo Information Library. (E31, E32, A31; BWR; PWR). 488054
- castings**
Study on structure and chemical heterogeneity of big-end-down and big-end-up rimmed ingots. (B21). 493883
- cleaning**
Dresden 1 Radiation Level Reduction Program. Intergranular corrosion tests of sensitized Type-304 stainless steel in Dow NS-1, and stress corrosion cracking tests of Type-304 stainless steel and carbon and low alloy steels in Dow copper rinse solution. (E31, B15). 480636
- coatings**
Composition, microstructure and mechanical properties of flame sprayed molybdenum coatings. (B21). 490545
- corrosion**
A contribution to the acid cleaning of boilers. (B15). 486790
Dissolution of iron during the initial corrosion of carbon steel in aqueous H₂S solutions. (B15). 460631
Effect of dissolved oxygen on carbon steel corrosion in pure water. (B15). 481752
Investigation into corrosion products formation in the main technological APS systems with RBMK-1000 during operation. (B15). 493841
An investigation of the corrosion behavior of mild steel in distilled water using a rotating electrode. (B15). 481757
Material corrosion during thermal detoxification of chemical wastes. (B15). 484122
Steel corrosion in tributyl phosphate in the presence of water and ethyl mercaptan. (B15). 493837
- corrosion inhibitors**
A contribution to the acid cleaning of boilers. (B15). 486790
- corrosion resistance**
Carbon and low-alloy steels. Chapter IV. (B15). [Data] 462801
Corrosion resistance of metallic materials in titanium tetrachloride vapors. (B15). 465507

- creep**
Regression analysis of creep-rupture data: a practical approach. (B22). 493925
- crystal-phase transformations**
Hydrogen effect on structure transformation in steel, spheroidizing and coalescence of cementite. (B22). 484252
- deformation**
Study of displacement fields and deformations in the concentrator zone at high-speed loading of carbon steels. (B22). 493935
- diffusion coating**
Niobium carbide deposition on the iron and steel surface. (B21). 484147
- diffusion coatings**
Effect of copper impurity in reaction mixture on boride layer brittleness. (B22). 493923
Structure and properties of steel after aluminizing in salt melts. (B22). 469313
- enthalpy**
Enthalpy and specific heat of a nickel-cobalt steel to 2000 K. (B22). 479458
- fatigue**
Low-cycle fatigue of sheet elements with "soft" surface layer. (B22). 465621
Summation of fatigue fractures during cyclic loading transient conditions of carbon steels. (B22). 469180
- fracture properties**
The fracture toughness characterisation of steel from conventional tensile and impact test data. (B22). 490622
Mechanical properties and microstructure of heat-treated ultrahigh carbon steels. (B22). 484261
Specimen selection for reactor vessel surveillance program. (B22, E22). 469463
- friction welding**
Temperature in friction welding of pieces with noncontinuous contact surface. (B21). 493895
- hydrogen**
Investigations on hydrogen brittleness of quenched and drawn steels during electrochemical coating. (B22). 469262
- mechanical tests**
Study of displacement fields and deformations in the concentrator zone at high-speed loading of carbon steels. (B22). 493935
- metallography**
Method of direct structure investigation of hot deformation of carbon steel. (B22). 494038
- microstructure**
Hydrogen attack of steel. Progress report, April 1, 1978 - March 31, 1979. (B22). 472682
- nitrogen**
Effect of denitridation on the 08kp steel mechanical properties. (B12). 484020
- nondestructive testing**
Nature of correlation between mechanical and magnetic properties of carbon steel. (B22, B21). 469269
- phase studies**
Study on the composition of vanadium and niobium carbonitrides in deformed low-carbon steel. (B22). 484178
- physical radiation effects**
Specimen selection for reactor vessel surveillance program. (B22, E22). 469463
- pitting corrosion**
Corrosivity investigations of pickling solutions on reactor materials. (B15). 486785
- plasma arc welding**
Formation of flanged welded joints. (B21). 490549
- quantitative chemical analysis**
Accurate determination of sulphur in steels and certain heat-resisting alloys by isotope dilution mass spectrometry. (B11). 460431
- [Data]
quench hardening
Mechanical properties and microstructure of heat-treated ultrahigh carbon steels. (B22). 484261
- radiation hardening**
Surface hardening with the aid of electron beams. (B25). 487015
- rolling**
Stabilization of mechanical properties and microstructure along the length of hot rolled strips. (B21). 484151
- sheets**
Fabrication of cold-rolled sheet using 1700 mill in Karaganda metallurgical works. (B21). 493902
- solubility**
Investigation into the process of solubility of carbon steels in solutions of hydrochloric acid and FeCl₃. (B15). 493833
- specific heat**
Enthalpy and specific heat of a nickel-cobalt steel to 2000 K. (B22). 479458
- stress corrosion**
Effect of hydrogen sulfide and low temperatures on inclination of carbon steels to corrosion - mechanical destruction. (B15). 468999
Influence of mechanical stress level in preliminary stress-corrosion testing on fatigue strength of a low-carbon steel. (B22). 469093
- tensile properties**
Hydrogen effect on durability of steels with different carbon concentration. (B22). 469121
Hydrogen attack of steel. Progress report, April 1, 1978 - March 31, 1979. (B22). 472682
- tubes**
Stress calculation for drawing of tubes on a movable mandrel using ultrasonic waves. (B21). 465563
- welded joints**
Mechanical properties of transition joint materials in support of LMFBR steam generator design. (B22, E35). 460694
Resistance to deformation and rupture at low-cycle loading under dynamic strain aging conditions. (B22). 469145
- welding**
Duke power cities training, electrodes for low weld reject rate. (B21, E32). 472604
- CARBON SULFIDES:**
- affinity**
Formation of interstellar HCS*. (A15). 475346
- cosmochemistry**
Formation of interstellar HCS*. (A15). 475346
- photoionization**
Dissociative photoionization of carbon disulphide and carbonyl sulphide. (B11). 486500
Photoionization mass spectrometric studies of selected compounds in a molecular beam. (A12). 474669
- radiolysis**
Reactions of metastable atoms of rare gases with CS₂, SF₆, CF₄, C₃H₈O molecules and their role in radiolysis processes. (B14). 479251
- CARBON TETRACHLORIDE:**
See TETRACHLOROMETHANE
- CARBON TETRAFLUORIDE:**
See TETRAFLUOROMETHANE
- CARBON 11:**
- acetylene**
Production of ¹¹C-acetylene by methane pyrolysis. (B13). 490435
- alanines**
Syntheses of racemic [¹¹C]-alanine and partially resolved [3-¹¹C]-alanine. (B13). 462764
- biological localization**
High-level production of C-11-carboxyl-labeled amino acids. (B13, C21, C62; For use in tumor and pancreatic imaging). 472497
- cross sections**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ⁷Be and ¹¹C from targets with masses up to 40. (A33). 481502
- hot atom chemistry**
¹¹C-recoil-chemistry with amino acids in the solid phase. (B13). 490430
- [Data]
isotope production
"Small" accelerator, radionuclide and radiopharmaceutical production. (E16, B13). 470409
Production of oxygen-15, nitrogen-13 and carbon-11 and of their low molecular weight derivatives for biomedical applications. (B13). 490436
Spallation of aluminum by 300 GeV protons. (A34). 475822
- labelled compounds**
New prospects offered by carbon 11 for pharmacokinetic studies. (C31). 491070
Syntheses of racemic [¹¹C]-alanine and partially resolved [3-¹¹C]-alanine. (B13). 462764
- labelling**
Automated synthesis of ¹¹C-labelled radiopharmaceuticals: imipramine, chlorpromazine, nicotine and methionine. (B13). 486693
- photoproduction**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ⁷Be and ¹¹C from targets with masses up to 40. (A33). 481502
- positron sources**
Precision measurement of annihilation point spread distributions for medically important positron emitters. (C63, D14). 491364
- radiochemistry**
High-level production of C-11-carboxyl-labeled amino acids. (B13, C21, C62; For use in tumor and pancreatic imaging). 472497
Nuclear Medicine Technology. Progress report for quarter ending September 30, 1978. (B13, C21, C62). 468914
- radionuclide kinetics**
Concentration of activity in brain following administration of ¹¹C-labeled α-p-iodoanilino-phenylacetone nitrile. (C21, B13). 479968
- radiopharmaceuticals**
Automated synthesis of ¹¹C-labelled radiopharmaceuticals: imipramine, chlorpromazine, nicotine and methionine. (B13). 486693
A comparison of positron-emitting blood pool imaging agents. (C62). 484737
A remote-controlled synthesis of ¹¹C-iodomethane for the practical preparation of ¹¹C-labeled radiopharmaceuticals. (B13). 465444
- scintiscanning**
A comparison of positron-emitting blood pool imaging agents. (C62). 484737
- uses**
Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471
- CARBON 12:**
¹³C/¹²C and ¹⁸O/¹⁶O liquid-vapor isotopic fractionation factors in CO as a function of temperature. (B12). 486604
- alpha decay**
Measurement of a 4π angular pattern for α-decay of ¹²C excited by inelastic deuteron scattering. (A34). 483884
On the β-delayed alpha decay of ¹²C. (A34). 486454
- binding energy**
Validity and accuracy of separable potentials in three-body calculations. (A33). 475764
- charge density**
Leptonic probes of nuclear densities. (A33; Critical review). [Data] 486270

- cluster model**
Efimov states and bound state properties in selected nuclear and molecular three-body systems. (A33, A12). 460293
Three-alpha force and the 3- α model of ^{12}C . (A33). 468383
The 3 α -cluster structure of ^{12}C and the 3 α reaction in stellar evolution studied by coupled-channel 3 α resonating group method. (A33). 465005
- cosmic radiation**
The cosmic ray boron and carbon isotopic composition measured in nuclear emulsions. (A15). [Data] 492865
- energy**
Range and energy functions of interest in neutron dosimetry. (A31). 481445
- energy levels**
Analyses of inelastic proton and electron scattering to the 2 $^{+}$ (4.43 MeV) state in ^{12}C . (A33). 486185
Inelastic scattering of 14.8 MeV neutrons from deuterons. (A31). 489999
Intermediate resonances in the inelastic scattering of ^{12}C on ^{16}O . (A33). 490106
Isospin mixing in ^{12}C . (A34). [Data] 486306
Low-energy pion scattering. (A34; 50 MeV, differential cross sections). 468473
Origin of gross structure in $^{12}\text{C} + ^{12}\text{C}$ and $^{16}\text{O} + ^{16}\text{O}$ inelastic scattering. (A33). 475768
Radiative capture of intermediate-energy protons to high-lying states in light nuclei. (A34). 478739
- excited states**
Polarization of the ^{12}C nucleus 2 $^{+}$ (4.44 MeV) state in alpha particle inelastic scattering. (A34). 493402
- e0-transitions**
Monopole excitations in ^4He , ^{12}C and ^{24}Mg in a collective model description. (A33). 472187
- forbidden transitions**
Decays of the lowest T<2 states in A<4N nuclei from ^8Be to ^{44}Ti . (A34). 486379
- giant resonance**
Excitation of isoscalar giant resonances by inelastic scattering of 153 MeV ^4Li particles. (A34). 486413
Giant-resonance studies with high-energy heavy ions. (A34; 315 MeV). [Data] 465119
- hypernuclei**
Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
- isospin**
The $^{12}\text{C}(\text{d,pol})$, ^{12}C and $^{12}\text{C}(\text{d,pol})$, ^1H ^{12}B reactions: j-transfer determination and isospin mixing in ^{12}C . (A34). 483856
- isotope ratio**
 $^{12}\text{C}/^{13}\text{C}$ ratio variations in Pinus longaeva (bristlecone pine) cellulose during the last millennium. (B31). 469494
An additional note on the $^{12}\text{C}/^{13}\text{C}$ ratio in carbon stars. (A15). 471810
Carbon isotope ratio of marine plankton related to surface water masses. (B32). 460885
Carbon isotope ratios and iron/hydrogen ratios in K giants. (A15). [Data] 462421
Hydrogen, oxygen and carbon isotopic evidence for the origin of rodingites in serpentinized ultramafic rocks. (B31). [Data] 462975
- isotope separation**
Magnetic isotope and magnetic field effects on chemical reactions. Sunlight and soap for the efficient separation of ^{13}C and ^{12}C isotopes. (B12). 460541
- isotopic exchange**
Dissociative chemisorption of CO on ruthenium. (B12). 460500
- laser isotope separation**
Effect of pressure and pulse length on the isotopically selective photodissociation of freon CF_2Cl_2 under CO_2 laser pulses. (B12). 486646
- nuclear radii**
Measurement of the charge radius of a carbon nucleus. (A34). 493364
- nuclear structure**
Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082
- range**
Range and energy functions of interest in neutron dosimetry. (A31). 481445
- resonance particles**
Coupled-channel analysis of the ^{12}C - ^{12}C quasi-molecular resonances. (A21). 468121
- spallation**
Fragmentation model and nuclear scaling. (A33; quasi-two-particles decay model). 493156
- CARBON 12 BEAMS:**
- nuclear decay**
Coulomb disintegration of relativistic ions. (A33). 493235
- CARBON 12 REACTIONS:**
- backscattering**
Backward angle heavy ion elastic scattering on ^{40}Ca and ^{58}Ni . (A34). 468516
- beta decay radioisotopes**
Time of flight mass identification system associated to a helium jet, first experimental results. (A34, E16). 460331
- breakup reactions**
Cross sections for 3 α -particle breakup of ^{12}C deduced from α -multiplicity measurements. (A34). 490255
- compound-nucleus reactions**
Critical analysis of statistical methods used to detect resonances in nuclear reactions. (A33). 475715
Energy-averaged angular distributions for $^{16}\text{O} + ^{12}\text{C} \rightarrow \alpha + ^{24}\text{Mg}$. (A34). 468527
- Enhancements in the p and d exit channels of $^{12}\text{C} + ^{12}\text{C}$: E/sub c.m./ approx. = 14.3 and 25.2 MeV. (A34). 475829
Evidence for a positive parity decoupled band in ^{79}Rb . (A34). 490139
- In-beam gamma-ray spectroscopy of ^{74}Se following the $^{60}\text{Ni}(^{16}\text{O},2\text{p})$, $^{64}\text{Ni}(^{12}\text{C},2\text{n})$ and $^{63}\text{Cu}(^{11}\text{B},2\text{n})$ reactions. (A34). 478760
- coupled channel theory**
Dynamical structural change of $^{12}\text{C} + ^{12}\text{C}$ system during scattering process and molecular resonances, 1. (A33). [Data] 481514
- dwba**
Reformulation of DWBA form factor for heavy ion transfer reactions. (A33). 481513
- elastic scattering**
Comparison of heavy-ion - induced α transfer and backward-angle elastic scattering. (A34). 468488
Intermediate structure in $^{12}\text{C} + ^{12}\text{C}$ elastic scattering. (A33). 478593
Nuclear molecular resonances in heavy-ion collisions. (A34). 468474
Optical potential for nucleus-nucleus systems. (A33). 475745
Resonance effects in fusion and transfer reactions. (A33, A34; Review). 468350
Surface transparency in ^{12}C elastic scattering from ^{16}O sup 40,42,48/Ca. (A34). 475842
- factorization**
Nuclear reactions of silver with 25.2 GeV ^{12}C ions and 300 GeV protons. (A33, A22). 486281
- fission**
Studies of relativistic heavy ion induced fission: fission fragment charge distributions. (A34). [Data] 486315
- form factors**
Reformulation of DWBA form factor for heavy ion transfer reactions. (A33). 481513
- gev range 10-100**
Methodic problems of determination of cross sections in inelastic interactions of relativistic nuclei. (A34). 493330
- heavy ion fusion reactions**
Analyses of fusion reaction in light nuclei systems using various potentials. (A33). 475761
In-beam gamma-ray spectroscopy studies in ^{68}Ge and ^{72}Ge . (A34; J, π lifetime). 468460
Incomplete fusion in $^{12}\text{C} + ^{160}\text{Gd}$ collisions. (A34). 490238
Incomplete fusion in $^{12}\text{C} + ^{160}\text{Gd}$ collisions interpreted in terms of a generalized concept of critical angular momentum. (A34). 490239
- Influence of dissipative and conservative properties on heavy-ion fusion. (A33). 486263
Resonance effects in fusion and transfer reactions. (A33, A34; Review). 468350
Time-dependent Hartree-Fock calculation of fusion cross sections for the reactions $^{18}\text{O} + ^{12}\text{C}$ and $^{16}\text{O} + ^{12}\text{C}$. (A33). 490079
- inelastic scattering**
 $^{194}\text{Pt}(^{12}\text{C},^{12}\text{C})$ reaction and the triaxial-rotor model. (A34). 483829
Evidence for giant quadrupole excitation in ^{208}Pb by 200 MeV ^{12}C scattering. (A34). 490190
Evidence for giant quadrupole excitation in ^{208}Pb by 200 MeV ^{12}C scattering. (A34). 483891
Investigation of the nuclear continuum by inelastic scattering of ^{13}C ions. (A34). 472274
Methodic problems of determination of cross sections in inelastic interactions of relativistic nuclei. (A34). 493330
Origin of gross structure in $^{12}\text{C} + ^{12}\text{C}$ and $^{16}\text{O} + ^{16}\text{O}$ inelastic scattering. (A33). 475768
Prospective study of giant resonances by inelastic scattering of heavy ions and search for giant monopole resonance by inelastic scattering of ^3He . (A34). [Data] 493377
- intermediate structure**
Intermediate structure in heavy-ion reactions. (A33). 478614
- nuclear cascades**
An intranuclear cascade calculation of high-energy heavy-ion interactions. (A34). 478786
- nuclear potential**
Optical potentials for light and heavy ion scattering. (A33). 493231
- nuclear reaction kinetics**
Investigation of nuclear reaction mechanisms and technics of spin determination through an analysis of the angular distributions and correlations. Application to $^{12}\text{C}(^{12}\text{C},\alpha)^{20}\text{Ne}$, $^{16}\text{O}(^7\text{Li}, t)^{20}\text{Ne}$ and $^{12}\text{C}(^6\text{Li}, d)^{16}\text{O}$. (A34). 472249
- Investigation of nuclear reaction mechanisms and technics of spin determination through an analysis of the angular distributions and correlations. Application to $^{12}\text{C}(^{12}\text{C},\alpha)^{20}\text{Ne}$, $^{16}\text{O}(^7\text{Li}, t)^{20}\text{Ne}$ and $^{12}\text{C}(^6\text{Li}, d)^{16}\text{O}$. (A34). 472249
- particle production**
Investigation of velocity spectra of singly charged particles from nuclear interactions at high energy. (A34). 493342
Neutron production by heavy ion interaction for NUMATRON shielding design. (A31). [Data] 490006
- resonance scattering**
Application of a band crossing model for resonances in high energy ^{12}C - ^{12}C scattering. (A33). 478651
Nuclear molecular resonances in heavy-ion collisions. (A34). 468474
- resonating-group method**
Dynamical structural change of $^{12}\text{C} + ^{12}\text{C}$ system during scattering process and molecular resonances, 1. (A33). [Data] 481514
- silicon 28 target**
Comparison of entrance, exit and reaction channel data at backward angles for $^{28}\text{Si}(^{12}\text{C}, ^{16}\text{O})^{24}\text{Mg}$. (A34). [Data] 472242
- transfer reactions**
Resonance effects in fusion and transfer reactions. (A33, A34; Review). 468350

CARBON 12 TARGET:

- Elastic π^- scattering on ^4He , ^{12}C , ^{16}O and ^{40}Ca . (A33). 468358
- alpha reactions**
- $^{12}\text{C}(\alpha,n)^{15}\text{O}$ and $^{16}\text{O}(\alpha,n)^{19}\text{Ne}$ reactions at $E/\text{sub } \alpha = 40 \text{ MeV}$. (A34; Angular distribution, J, π , cross sections, spectroscopic factors, reaction mechanism, 40 MeV). [Data] 478759
- About the limits of existence of α -cluster structure in nuclei. (A34). 483826
- Analysis of energy and angular dependences of the cross sections for α particle elastic scattering and for the (α,p) , (α,d) , (α,t) reactions on ^{12}C and ^{27}Al in the l-splitting potential model. (A33). 493166
- Calculation of cross sections for channels of inelastic interaction between ^4He and ^{12}C nuclei. (A33; Reaction channels are considered with the production of $\text{sup}(6,7)\text{Li}$, $\text{sup}(7,9,10)\text{Be}$, $\text{sup}(10,11)\text{B}$, $\text{sup}(10,11)\text{C}$, $\text{sup}(10,11)\text{B}$). 493188
- Contribution of separate exchange mechanisms into elastic scattering of complex particles in the region of back angles. (A33). 493323
- Description of inverse maxima in complex-particle elastic scattering with allowance for exchange processes in introducing distortions in the eikonal approximation. (A33). 493324
- Experimental results on fragmentation of carbon nucleus by relativistic deuterons and alpha particles. (A34). 465096
- High energy alpha scattering used to study the uniqueness and shape of the optical potential. (A33). [Data] 465071
- Method for finite range DWBA for pick-up to unbound ejectiles. (A33). 490080
- Polarization of the ^{12}C nucleus $2^-(4.44 \text{ MeV})$ state in alpha particle inelastic scattering. (A34). 493402
- Quasi-free $(\alpha,2\alpha)$ reaction induced by 140 MeV alpha particles on ^9Be , ^{12}C , ^{16}O , and ^{20}Ne targets. (A34; Cross sections, spectroscopic factors). [Data] 478782
- The reaction $^{12}\text{C}(\alpha,p)^{13}\text{N}$ around 18 MeV excitation energy of ^{16}O . (A34). [Data] 468529
- Scattering of protons and alpha particles on ^{12}C in the α -cluster model. (A33). 493261
- Study of the first excited state in ^4He via the $^{12}\text{C}(\alpha,\alpha')^{12}\text{C}$ reaction. (A34). 490244
- Study on the angular correlation in the $\text{C}^{12}(\alpha,\alpha')\text{C}^{12}$ reaction. (A34). 493417
- alpha-transfer reactions**
- On lithium reactions of alpha-particle transfer. (A33). 493227
- beryllium 9 reactions**
- $^{12}\text{C}(^9\text{Be},^9\text{Be})^{12}\text{C}(\text{g.s.}, 4.43 \text{ MeV})$ reaction. (A34, A33). 490201
- Analysis of the ^9Be ion elastic scattering on a ^{12}C nucleus taking account of exchange mechanism. (A33). 493328
- Cluster transfer processes in the $^{12}\text{C}(^9\text{Be},\alpha)^{13}\text{O}$ reaction. (A33, A34). 493177
- Large angle elastic scattering of ^9Be ions on carbon isotopes. (A34). 468501
- A search for resonances in $^9\text{Be} + ^{12}\text{C}$ reactions in the energy range from 11.4 MeV to 14.8 MeV (CM). (A34). 478707
- boron 11 reactions**
- Resonances in the $^{11}\text{B} + ^{12}\text{C}$ system. (A34). 486378
- calcium 40 reactions**
- Resonant heavy-ion elastic scattering from s-d shell nuclei. (A34). 475837
- carbon 12 reactions**
- Analyses of fusion reaction in light nuclei systems using various potentials. (A33). 475761
- Application of a band crossing model for resonances in high energy ^{12}C - ^{12}C scattering. (A33). 478651
- Critical analysis of statistical methods used to detect resonances in nuclear reactions. (A33). 475715
- Enhancements in the p and d exit channels of $^{12}\text{C} + ^{12}\text{C}$: $E/\text{sub c.m.}/\text{approx.} = 14.3$ and 25.2 MeV . (A34). 475829
- Influence of dissipative and conservative properties on heavy-ion fusion. (A33). 486263
- Intermediate structure in $^{12}\text{C} + ^{12}\text{C}$ elastic scattering. (A33). 478593
- Intermediate structure in heavy-ion reactions. (A33). 478614
- Investigation of nuclear reaction mechanisms and technics of spin determination through an analysis of the angular distributions and correlations. Application to $^{12}\text{C}(^{12}\text{C},\alpha)^{24}\text{Ne}$, $^{16}\text{O}(\text{Li}, t)^{20}\text{Ne}$ and $^{12}\text{C}(\text{Li}, d)^{14}\text{O}$. (A34). 472249
- Nuclear molecular resonances in heavy-ion collisions. (A34). 468474
- Optical potential for nucleus-nucleus systems. (A33). 475745
- Origin of gross structure in $^{12}\text{C} + ^{12}\text{C}$ and $^{16}\text{O} + ^{16}\text{O}$ inelastic scattering. (A33). 475768
- carbon 13 reactions**
- Heavy ion induced α -transfer on targets of mass 12 to 15. (A34). 462629
- cross sections**
- Quasi-deuteron contribution to (γ,n) reaction. (A33). 472183
- deuteron reactions**
- Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
- Experimental results on fragmentation of carbon nucleus by relativistic deuterons and alpha particles. (A34). 465096
- Measurement of a 4π angular pattern for α -decay of ^{12}C excited by inelastic deuteron scattering. (A34). 483884
- Polarization in deuteron stripping on ^{12}C at low energy. (A34). [Data] 490237
- Stripping study in the $^{12}\text{C}(d,n)^{13}\text{N}$ reactions. (A33, A34). 472220
- deuteron spectra**
- Experimental study of resonance line-shapes in $^{12}\text{C}(\text{tau},d)$ stripping into the continuum. (A34). 475808
- electron reactions**
- Analyses of inelastic proton and electron scattering to the $2^-(4.43 \text{ MeV})$ state in ^{12}C . (A33). 486185
- Correlation experiments in study of the nuclear continuous spectrum structure by means of electrons and protons of high energy. (A33). 475706
- ee

experiments at Saclay linear accelerator. (A34). 472230

Electroproduction of charged pions from ^{12}C leading to discrete final nuclear states. (A34). 490217

Measurement of the charge radius of a carbon nucleus. (A34). 493364

On the possible effect of relaxation on the quasi-elastic electron scattering in the (e,e') reaction. (A34). 493388

Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082

Validity of the factorized DWIA in $(e,e'p)$ reactions. (A33). 483727

electron-nucleon interactions

Comparison of inelastic electron and positron scattering cross sections on ^{12}C and ^{27}Al . (A22). 483697

evaporation model

Double differential distributions of charged particles in π -C interactions at 5 GeV/c. (A22). 468149

helium 3 reactions

Elastic scattering of 119 MeV ^3He particles and mass number dependence of optical potential parameter. (A34). [Data] 490181

Polarization effects in elastic scattering of ^3He . (A34, A33). 465157

Study on 50 MeV ^3He ion scattering and the $(^3\text{He},\alpha)$ reaction on ^9Be , ^{12}C and ^{13}C nuclei. (A34). 493380

kaon minus reactions

Kaon inelastic scattering and charge exchange on nuclei. (A33). 478617

kaon plus reactions

Kaon inelastic scattering and charge exchange on nuclei. (A33). 478617

kaon reactions

Calculation of total cross sections for interactions of pions and kaons with nuclei based on the optical model. (A33). 493322

Kaon-nucleus scattering and kaon-nuclear coupling constants. (A21). [Data] 493054

lithium 6 reactions

About the limits of existence of α -cluster structure in nuclei. (A34). 483826

Elastic scattering of 90 MeV ^6Li ions. (A34). 490168

Exact-finite-range DWBA analysis of $^{12}\text{C}(^6\text{Li},\alpha)^{14}\text{N}$ reaction at $E(^6\text{Li})=20 \text{ MeV}$. (A33). 460304

On lithium reactions of alpha-particle transfer. (A33). 493227

lithium 7 reactions

Heavy ion induced α -transfer on targets of mass 12 to 15. (A34). 462629

Lithium induced reactions on carbon at 48 MeV. (A34). 490267

muon reactions

A note on the induced pseudo-scalar coupling constant in $\mu^- + ^{12}\text{C}(\text{g.s.}) \rightarrow ^{12}\text{B}(1^-, \text{g.s.}) + \gamma \text{sub}(\mu)$. (A33). 483789

Study on multi-nucleon reactions with production of ^6Li at capture of stopped μ^- -mesons by ^{12}C nuclei. (A34; $\text{sup}(4)\text{Hsup}(\pi^-) \rightarrow \text{sup}(3)\text{H} + p$; $^2\text{H} + ^2\text{H}$; $^2\text{H} + p + n$; $2p + 2n$). 465089

neutron reactions

Backward proton emission in the multiproton π -C and nC interactions. (A22). 483708

Calculation of the cross sections for the channels of inelastic interactions of neutrons with ^{12}C nuclei. (A33; Reaction channels are considered with the production of $\text{Csup}(10,11)$, $\text{sup}(8,10,11,12)\text{B}$, $\text{sup}(7,8,9,10)\text{Be}$, $\text{sup}(6,7,8,9)\text{Li}$, $\text{sup}(4)\text{He}$). 493189

Contribution of low-energy α -particles to the $^{12}\text{C}(n,3\alpha)n$ reaction. (A34). 483912

Cumulative production of protons and Λ hyperons in the interactions of fast negative pions and neutrons carbon nuclei. (A33, A21). 475775

Cumulative production of Λ -hyperons in π -C and nC-interactions. (A22). 483709

The discovery of resonances in multibaryon systems. (A22). 460243

Elastic and inelastic scattering of fast neutrons by ^6Li , ^7Li , ^9Be , and ^{12}C . (A34; 7 to 15 MeV: differential cross sections). 460338

Neutron scattering cross sections of carbon below 2 MeV recommended from R-matrix fits to Data. (A33). 486228

Neutron total cross-section measurements of ^9Be , ^{10}B , and ^{12}C from 1.0 to 14 MeV using the $^9\text{Be}(d,n)^{10}\text{B}$ reaction as a white neutron source. (A34, A31; 10 to 14 MeV). [Data] 490120

Reaction $^{12}\text{Csub}(n,n)3\alpha$ from threshold to $E\text{sub}(n)=35 \text{ MeV}$. (A34). 483823

The total neutron cross sections for hydrogen, deuterium and carbon. (A34). [Data] 468505

nitrogen 14 reactions

Critical analysis of statistical methods used to detect resonances in nuclear reactions. (A33). 475715

Elastic scattering of ^{14}N by ^{12}C from 33.0 to 48.0 MeV. (A34; Excitation functions, angular-distribution, reaction kinetics). [Data] 486356

Fusion and peripheral reactions of $^{12}\text{C} + ^{14}\text{N}$ at energies up to 13 MeV/A. (A34, A33). 486384

Measurements of heavy ion radiative capture cross sections. (A34). 481611

Studies of the reactions $^{12}\text{C}(^{14}\text{N},^{13}\text{N})^{13}\text{C}$ and $^{12}\text{C}(^{14}\text{N},^{13}\text{C})^{13}\text{N}$ at 53.5 MeV. (A34; Angular distributions, DWBA). [Data] 486324

nitrogen 15 reactions

Critical analysis of statistical methods used to detect resonances in nuclear reactions. (A33). 475715

nuclear decay

Total disintegration of the carbon nucleus by 40 GeV/c π^- mesons. (A34). 493338

oxygen 16 reactions

(Heavy ion, 2p) reactions on light nuclei. (A34). 490128

$^{12}\text{C} + ^{16}\text{O} \rightarrow ^8\text{Be} + ^8\text{Be}$ reaction. (A34; 14 to 24 MeV (c.m.)). 490128

- excitation functions). [Data] 486336
 The $^{12}\text{C} + ^{12}\text{C} + \alpha$ three-body final state induced by the $^{12}\text{C} + ^{16}\text{O}$ entrance channel. (A34). 483875
 Giant-resonance studies with high-energy heavy ions. (A34; 315 MeV). [Data] 465119
 Influence of extra neutrons added to the $^{12}\text{C} + ^{16}\text{O}$ system: Gross structures in γ -ray yields following the $^{12}\text{C} + ^{16}\text{O}$ and $^{12}\text{C} + ^{18}\text{O}$ reactions. (A34). 478712
 Intermediate resonances in the inelastic scattering of ^{12}C on ^{16}O . (A33). 490106
 Narrow $I/\text{sup } \pi^- = 10^+$ resonance for $^{12}\text{C} + ^{16}\text{O}$ in the region of strong absorption. (A34; 18.8 MeV (c.m.): angular momentum). 465123
[Data]
 Nuclear substate populations near the Coulomb barrier in $^{12}\text{C}(^{16}\text{O}, \alpha)^{24}\text{Mg}(2^+)$. (A34). 483894
 Reaction $^{12}\text{C}(^{16}\text{O}, ^{20}\text{Ne}/\text{sub g.s.}/^8\text{Be}/\text{sub g.s.}/$ in the region 10 MeV $< \text{or} = \text{E}/\text{sub c.m.}/ < \text{or} = 15.5$ MeV. (A34). 486478
 Reaction cross sections for $^{16}\text{O} + ^{12}\text{C}$. (A34). [Data] 465165
 Search for α -particles emitted at rest in the break-up of the $^{12}\text{C}-\alpha$ ^{12}C molecule-like configuration. (A34). 483921
 Search for alpha particles emitted at rest in the break-up of the $^{12}\text{C}-\alpha$ ^{12}C molecule-like configuration. (A34). 481594
 The spin and parity of the 10.9 MeV resonance in $^{16}\text{O} + ^{12}\text{C}$. (A34). [Data] 468457
 Spin of the 12.8 MeV c.m. resonance in the $^{12}\text{C} + ^{16}\text{O}$ system. (A34). 478776
 Static and dynamic deformation effects in the fusion cross section of light-heavy ions at sub-barrier energies. (A33). [Data] 486237
 Statistical analysis of the structure observed in the $^{12}\text{C}(^{16}\text{O}, \alpha)^{24}\text{Mg}$ and $^{12}\text{C}(^{16}\text{O}, ^8\text{Be})^{20}\text{Ne}$ reactions. (A34). 465218
 Study of excitation functions for ^{16}O and ^{18}O induced reactions on ^{12}C using γ -ray spectroscopy. (A34; 9.5 MeV (c.m.)). [Data] 486335
oxygen 18 reactions
 $^{12}\text{C}(^{18}\text{O}, \alpha)^{24}\text{Mg}$ reaction. (A34; 19.0 MeV (c.m.): angular distribution). [Data] 486337
 Influence of extra neutrons added to the $^{12}\text{C} + ^{16}\text{O}$ system: Gross structures in γ -ray yields following the $^{12}\text{C} + ^{16}\text{O}$ and $^{12}\text{C} + ^{18}\text{O}$ reactions. (A34). 478712
 Study of excitation functions for ^{16}O and ^{18}O induced reactions on ^{12}C using γ -ray spectroscopy. (A34; 9.5 MeV (c.m.)). [Data] 486335
protonuclear reactions
 Estimation of secondary neutron spectra produced by high energy bremsstrahlung. (C55). 491227
 Measurement of total cross sections of hadron photoproduction on C, Cu, and Pb nuclei for $\text{E}_{\text{sub}}(\gamma) = (12-30)$ GeV. (A22, A33). 468154
 Mechanism of the photoproton reaction on a ^{12}C nucleus. (A34). 493460
 Momentum spectrum of protons generated at 20 deg - 160 deg angles on nuclei irradiated by bremsstrahlung photons with (4.5 GeV) maximum energy. (A34). 472246
 Neutral pion photoproduction on nuclei near threshold. (A34). 481539
[Data]
 Photoproduction of neutral mesons on ^{12}C with knockout of protons. (A34). 483866
 Positive-pion photoproduction on ^{12}C near threshold. (A34). 478751
 Quasi-deuteron contribution to (γ, n) reaction. (A33). 472183
 Study on the $(\gamma, \pi^0 p)$ reaction on Li^6 , C^{12} and O^{16} nuclei in the wide range of momentum transfer. (A34). 478726
 Study on the $^{12}\text{C}(\gamma, \pi^0)\text{Li}$ and $^{12}\text{C}(\gamma, \pi^0)\text{Be}$ at $\text{E}_{\text{sub}}(\alpha_{\text{max}}) = 120$ MeV. (A34). 486408
pion minus reactions
 Backward proton emission in the multiproton $\pi^- \text{C}$ and $n\text{C}$ interactions. (A22). 483708
 Complete disintegration of the carbon nucleus by π^- mesons with the 40 GeV/c momentum. (A34). 493339
 Cumulative production of protons and Λ hyperons in the interactions of fast negative pions and neutrons carbon nuclei. (A33, A21). 475775
 Cumulative production of Λ -hyperons in $\pi^- \text{C}$ and $n\text{C}$ -interactions. (A22). 483709
 The discovery of resonances in multibaryon systems. (A22). 460243
 Double differential distributions of charged particles in $\pi^- \text{C}$ interactions at 5 GeV/c. (A22). 468149
 Estimation of the $^{12}\text{C}(\pi^-, e^-)^{12}\text{B}$ reaction cross section at 164 MeV. (A34). [Data] 490117
 Evidence for the quasifree character of the $(\pi^-, \pi^0 N)$ reactions on ^{12}C , ^{24}Mg , and ^{40}Ca . (A34, A33). 486422
 Fast and slow components for particles produced in the $\pi^- ^{12}\text{C}$ interactions at 40 GeV/c. The rapidity distribution. (A34). 493341
 Fast and slow components for particles produced in $\pi^- ^{12}\text{C}$ interactions at 40 GeV/c. Rapidity distributions. (A22). 486116
 Interaction of π^- -mesons with carbon nuclei at 40 GeV/c and "nuclear transparency" effect for high energy hadrons. (A22). 464876
 The interaction of negative pions with ^{12}C at 70 MeV. (A22). 483682
 Large angle pion-carbon scattering near the $\pi N(3, 3)$ resonance. (A34). 468453
 Multiplicity distributions of secondary charged particles in the $\pi^- ^{12}\text{C}$ interactions at $p=40$ GeV/c. (A21, A33). 464751
 Multiplicity of secondary particles depending on the number of π^- meson collisions with nucleons of the carbon nucleus at 40 GeV/c. (A22, A34). 493099
 Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^- - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
 The pion-nucleus many-body problem. (A33). 468284
 Pion-nucleus scattering with separate treatment of protons and neutrons. (A33). 478624
 Single-neutron emission induced by stopped π^- in 1p shell nuclei. (A34). 483834
 Some characteristics of π^- meson multinucleon interactions at $p=40$ GeV/c. (A34). 493340
 Total disintegration of the carbon nucleus by 40 GeV/c π^- mesons. (A34). 493338
pion plus reactions
 Disintegration of a carbon nucleus in three alpha particles under the action of 60 MeV π^+ mesons. (A34). 493410
 Elastic backward scattering of positive pions from ^{12}C at 23, 29 and 35 MeV. (A34). 460336
 Evidence for the quasifree character of the $(\pi^+, \pi^0 N)$ reactions on ^{12}C , ^{24}Mg , and ^{40}Ca . (A34, A33). 486422
 Large angle pion-carbon scattering near the $\pi N(3, 3)$ resonance. (A34). 468453
 Low energy π^+ scattering from light nuclei. (A34). 475800
 Pion-nucleus forward scattering amplitudes at $\Delta(3,3)$ energies for $\pi^+ - ^{12}\text{C}$, ^{40}Ca and ^{48}Ca . (A34; Cross sections). 468470
 The pion-nucleus many-body problem. (A33). 468284
 Pion-nucleus scattering with separate treatment of protons and neutrons. (A33). 478624
pion reactions
 Calculation of total cross sections for interactions of pions and kaons with nuclei based on the optical model. (A33). 493322
 Ingong-wave boundary-condition model for pion-nucleus wave functions. (A21; Phase shifts, π -n resonance region, partial wave). [Data] 489890
 Pion double charge exchange. (A34; Review, cross sections, preliminary results). 465113
proton reactions
 (p,n) reaction at intermediate energy. (A34, A30; 62 to 135 MeV: angular distributions, DWIA analysis). [Data] 468492
 The (p,t) reaction on ^{12}C , ^{56}Fe and ^{208}Pb at 80 MeV. (A34). 483924
 Analyses of inelastic proton and electron scattering to the 2^+ (4.43 MeV) state in ^{12}C . (A33). 486185
 Collective state excitation by intermediate energy protons. (A34). 483816
 Correlation experiments in study of the nuclear continuous spectrum structure by means of electrons and protons of high energy. (A33). 475706
 Effects of spin-orbit deformation in inelastic scattering at 0.8 GeV. (A34; Differential cross sections, analyzing power). [Data] 465177
 Elastic and inelastic scattering of 185 MeV protons from ^{12}C . (A34). 483889
 Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
 Microscopic approaches to the intermediate energy nucleon-nucleus optical potential. (A33; 100 to 1500 MeV). 468392
 Observation of dependence of left-right asymmetry of $(635 + 15)$ -MeV proton quasi-elastic scattering by ^6Li , ^{12}C and ^{16}O nuclei on the recoil nucleus momentum. (A34). 465192
 Proton total cross sections on ^1H , ^2H , ^4He , ^9Be , C and O in the energy range 180 to 560 MeV. (A34). 468558
 Proton- ^{12}C interaction potential at the energy of 9.5 MeV reconstructed by the inverse scattering method. (A33). 475757
 Quadrupole effect on 1 GeV proton elastic scattering on nuclei of p-shell. (A34). 468436
 Quasi-free (p,pn) scattering. (A21). 472023
 Radiative-emission spectrum of 50-MeV nuclear excitations populated by proton capture. (A33). 486188
 Scattering of protons and alpha particles on ^{12}C in the α -cluster model. (A33). 493261
 Spallation of aluminum by 300 GeV protons. (A34). 475822
 Spectroscopic information about reactions of quasi-elastic knocking-out of nucleon clusters from 1p-shell nuclei. (A33; ^{10}B , ^{12}C , ^{14}N , ^{9}B , ^{11}C , ^{13}N , ^8Be). 483754
 Spin-orbit deformation in the inelastic scattering of polarized protons from ^{12}C and ^{16}O . (A33). [Data] 486277
 Study on quasi-elastic knock-out of proton pairs from Li^6 and C^{12} nuclei by 640 MeV protons. (A34). 478756
 Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082
 Total reaction cross sections and the matter density of finite nuclei. (A33). 475723
 Transfer reactions at intermediate energies. (A34). 483933
quasi-free reactions
 Quasi-free (p,pn) scattering. (A21). 472023
silicon 28 reactions
 Resonant heavy-ion elastic scattering from s-d shell nuclei. (A34). 475837
spallation
 Disintegration of a carbon nucleus in three alpha particles under the action of 60 MeV π^+ mesons. (A34). 493410
stripping
 Stripping of a charged particle into a resonance state. (A33). 493194
 Stripping study in the $^{12}\text{C}(d,n)^{13}\text{N}$ reactions. (A33, A34). 472220
sulfur 32 reactions
 Resonant heavy-ion elastic scattering from s-d shell nuclei. (A34). 475837
titanium 46
 A study of the influence of shell effects in nuclear level densities on the decay of the compound nucleus ^{58}Ni . (A34). 468450
CARBON 13:
 $^{12}\text{C}/^{13}\text{C}$ and $^{18}\text{O}/^{16}\text{O}$ liquid-vapor isotopic fractionation factors in CO as a function of temperature. (B12). 486604
cosmic radiation
 The cosmic ray boron and carbon isotopic composition measured in nuclear emulsions. (A15). [Data] 492865

- energy**
Range and energy functions of interest in neutron dosimetry. (A31). 481445
- hypernuclei**
Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
Hypernuclei. (A22). 468205
- internal conversion**
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236
- isotope dating**
Carbon isotopes: variations of their natural abundance. Application to correction of radiocarbon dates, to the study of plant metabolism and to paleoclimate. (B11). 483981
- isotope effects**
Carbon-13/carbon-12 isotope fractionation of organic matter associated with uranium ores induced by alpha irradiation. (B31). 469505
Intrinsic isotopic selectivity factors: CO₂ TEA laser photolysis of CF₂Cl₂. (B12). 460481
Magnetic isotope and magnetic field effects on chemical reactions. Sunlight and soap for the efficient separation of ¹³C and ¹²C isotopes. (B12). 460541
Nonclassical brexyl cation. A reassessment. (B12). 486587
Three-electron oxidation. XIV. Carbon-13 isotope effect in the three-electron cooxidation of isopropyl alcohol and oxalic acid. (B12). 472457
- isotope ratio**
¹³C/¹²C ratio variations in Pinus longaeva (bristlecone pine) cellulose during the last millennium. (B31). 469494
An additional note on the ¹²C/¹³C ratio in carbon stars. (A15). 471810
Carbon isotope ratio of marine plankton related to surface water masses. (B32). 460885
Carbon isotope ratios and iron/hydrogen ratios in K giants. (A15). 462421
[Data] Carbon-13/carbon-12 isotope fractionation of organic matter associated with uranium ores induced by alpha irradiation. (B31). 469505
Hydrogen, oxygen and carbon isotopic evidence for the origin of rodingites in serpentinized ultramafic rocks. (B31). [Data] 462975
On the ¹³C record in tree rings. I. (B31). 490771
Relationship between ¹³C and ¹⁸O fractionation and changes in major element composition in a recent calcite-depositing spring - a model of chemical variations with inorganic CaCO₃ precipitation. (B31). 469531
Semi-automatic device for the conversion of hydrocarbons to determine ¹³C variations. (B11). 481635
- isotope separation**
Magnetic isotope and magnetic field effects on chemical reactions. Sunlight and soap for the efficient separation of ¹³C and ¹²C isotopes. (B12). 460541
- isotopic exchange**
Calculated ¹³C NMR relaxation parameters for a restricted internal diffusion model. Application to methionine relaxation in dihydrofolate reductase. (B12). 460490
Dissociative chemisorption of CO on ruthenium. (B12). 460500
Intrinsic isotopic selectivity factors: CO₂ TEA laser photolysis of CF₂Cl₂. (B12). 460481
- larmor precession**
The transient magnetic field for ¹³C in iron. (A13). 467390
- laser isotope separation**
Effect of pressure and pulse length on the isotopically selective photodissociation of freon CF₂Cl₂ under QO₂ laser pulses. (B12). 486646
- selective decomposition**
Selective decomposition of CF₃ ¹³COCF₃ molecules at natural abundance: Multiphoton dissociation at threshold. (B12). 490351
- nuclear magnetic resonance**
¹³C NMR studies of substituted phenylthiazols substituent effects, conformational analysis and prototropic equilibrium. (B12). 472428
Analysis and computerized fitting of the lineshape of the NMR powder pattern. (A13, B24; General powder pattern fitting, powder pattern fitting (two tensors), and draw a powder pattern (shift tensor), in FORTRAN IV). 459815
- range**
Range and energy functions of interest in neutron dosimetry. (A31). 481445
- trees**
Problems in interpreting tree-ring delta¹³C records. (B11). 475874
- CARBON 13 REACTIONS:**
- alpha-transfer reactions**
Alpha-transfer reactions with large energy transfers. (A34). 490159
A DWBA analysis of heavy ion alpha-transfer reactions on ¹⁶O. (A34). 460326
Heavy ion induced alpha-transfer on targets of mass 12 to 15. (A34). 462629
- dwba**
Transfer reactions and scattering induced by ¹³C on ⁵²Cr. (A34). 468481
- elastic scattering**
Large angle elastic scattering of ⁹Be ions on carbon isotopes. (A34). 468501
- heavy ion fusion reactions**
Nuclear spectroscopy of low lying levels in ²²Ne by the ¹³C(¹³C,α)²²Ne reaction. (A34; 20 MeV, excitation function, lifetime, J, π). [Data] 486370
Spectroscopy of heavy nuclei: yrast states, side bands and backbending. (A34; Transitions). [Data] 486461
- inelastic scattering**
Prospective study of giant resonances by inelastic scattering of heavy ions and search for giant monopole resonance by inelastic scattering of ³He. (A34). [Data] 493377
- pickup reactions**
L = 1 single-proton pickup reactions on ⁴⁰Ca. (A34). 486351
- transfer reactions**
Theory of nucleon transfer in the dynamical two-center shell model. (A33). 490090
- CARBON 13 TARGET:**
- boron 11 reactions**
Backbending in ²²Ne. (A34). 475849
- carbon 13 reactions**
Heavy ion induced alpha-transfer on targets of mass 12 to 15. (A34). 462629
Nuclear spectroscopy of low lying levels in ²²Ne by the ¹³C(¹³C,α)²²Ne reaction. (A34; 20 MeV, excitation function, lifetime, J, π). [Data] 486370
Theory of nucleon transfer in the dynamical two-center shell model. (A33). 490090
- deuteron reactions**
The ¹³C(d,pol), t)¹²C and ¹³C(d,pol), ³He)¹²B reactions: j-transfer determination and isospin mixing in ¹²C. (A34). 483856
- helium 3 reactions**
Structure in the giant resonance region of ¹⁶O observed with the reaction ¹³C(³He,γ)¹⁶O. (A34). 486477
Study on 50 MeV ³He ion scattering and the (³He,α) reaction on ⁹Be, ¹²C and ¹³C nuclei. (A34). 493380
- kaon plus reactions**
Nuclear structure and the single charge exchange. (A33; 150 to 600 MeV). [Data] 472193
- lithium 6 reactions**
Lithium induced reactions on carbon at 48 MeV. (A34). 490267
- neutron reactions**
Neutron total cross-section measurements of ⁹Be, ¹⁰B, and ¹²C from 1.0 to 14 MeV using the ⁹Be(d,n)¹⁰B reaction as a white neutron source. (A34, A31; 10 to 14 MeV). [Data] 490120
- oxygen 16 reactions**
Influence of extra neutrons added to the ¹²C + ¹⁶O system: Gross structures in γ-ray yields following the ¹³C + ¹⁶O and ¹²C + ¹⁸O reactions. (A34). 478712
- photonuclear reactions**
Atlas of photoneutron cross sections obtained with monoenergetic photons. (A34; Between 10 and 50 MeV). [Data] 486332
Photoneutron cross sections for ¹³C. (A34). 486403
The photoneutron cross section of ¹³C. (A34). 486417
- pion plus reactions**
Nuclear structure and the single charge exchange. (A33; 150 to 600 MeV). [Data] 472193
- proton reactions**
¹³C(anti p, γ₀)¹⁴N reaction. (A34; 6 to 17 MeV: excitation functions, angular distribution coefficients). [Data] 478778
¹³C(anti p, γ₀)¹⁴N reaction. (A34; 6.25 to 17.0 MeV). [Data] 472310
Cross-section measurements for ⁹Be(p,n)⁹B, ¹⁵N(p,n)¹⁵O and ¹³C(p,n)¹³N. (A34; 10 to 17 MeV). [Data] 472240
Cross-section measurements for ⁹Be(p,n)⁹B, ¹⁵N(p,n)¹⁵O and ¹³C(p,n)¹³N. (A34; 10 to 16 MeV: angular distributions). [Data] 478710
Excitation functions of the ⁹Be (α,f,n)¹²C, the ¹³C(p,n)¹³N and the ¹³N and the ¹³N(n,p)¹³C reactions. (A34). [Data] 460356
North Carolina State University Nuclear Structure Research at the Triangle Universities Nuclear Laboratory. Progress report, April 1, 1978 - March 31, 1979. (A34). 475836
Quadrupole effect on 1 GeV proton elastic scattering on nuclei of p-shell. (A34). 468436
- silicon 28 reactions**
Resonant heavy-ion elastic scattering from s-d shell nuclei. (A34). 475837
- CARBON 14:**
Reference facility descriptions for iodine, carbon-14 and krypton radioactive gaseous wastes. Final report. (B16, E51). 479330
- annual variations**
Influence of the 11-yr solar cycle on the radiocarbon variations in the atmosphere. (B33). 494242
- autoradiography**
¹⁴C-labelled carbon determination in steels by quantitative autoradiography. (B11). 475892
- calibration standards**
The use of a liquid scintillation counter in colorimetric analysis. (B11, E41). [Data] 472374
- distribution**
The retention and distribution of ²⁴¹Am and ⁶⁵Zn, given as DTPA chelates in rats and of [¹⁴C]DTPA in rats and beagles. (C21). 469795
- earth atmosphere**
Radioactivity induced in the earth's atmosphere by solar particles. (B33). 494243
- fallout**
The coefficients of the damping in the radioactive fall-out. (B33). 494245
- hypernuclei**
Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
- isotope dating**
Bracketing dates for two ash falls from Mount Mazama. (B11). 475893
Carbon isotopes: variations of their natural abundance. Application to correction of radiocarbon dates, to the study of plant metabolism and to paleoclimate. (B11). 483981
Confirmation of the Suess wiggles: 3200-3700 BC. (B11). 486517

- Extending the radiocarbon calendar. (B31). 484344
 Geomagnetic variation during the late Pleistocene period and changes in the radiocarbon time scale. (B31). [Data] 476404
 Isotopic fractioning of the oxalic acid NBS, a standard in the dating of fossils with carbon-14. (B31). 472829
 Making a date with radiocarbon. (B31). 472813
 Natural atmospheric ^{14}C variation and the Suess effect. (B33). 494247
 A radiocarbon date from Lake Bogoria, Kenya Rift Valley. (B11). [Data] 462686
 Radioisotope clocks in archaeology. (B31). 490783
 Tohoku University radiocarbon measurements, 6. (B31). 476448
isotope effects
 Carbon-14 kinetic isotope effects in the Menschutkin-type reaction of benzyl benzenesulfonates with N,N-dimethylanilines. Variation of the effects with substituents. (B12; [Y = p-CH₃O, X = p-CH₃H, p-Cl][Y = p-CH₃, X = p-CH₃O, p-CH₃H, p-Cl, m-NO₂][Y = H, X = H, p-Cl, m-NO₂][Y = p-Br, X = p-Cl][Y = m-NO₂, X = m-NO₂]). 472470
isotopic exchange
 Theoretical calculations of kinetic isotope effects in the nucleophilic substitution reactions of para-substituted benzyl chlorides. (B12). 468706
labelling
 Thin-layer mapping of peptides labeled with ^3H or ^{14}C via reductive methylation. (C31). 473130
low level counting
 On the optimization of liquid scintillation counting of aqueous solutions. (E41). [Data] 470966
 A small volume teflon-copper vial for ^{14}C low level liquid scintillation counting. (E41). 488254
paleontology
 Isotopic fractioning of the oxalic acid NBS, a standard in the dating of fossils with carbon-14. (B31). 472829
plankton
 Variations in the progress of ^{14}C uptake as a source of error in estimates of primary production. (C21). 469785
radiation hazards
 Scenarios for ^{14}C release to the atmosphere by the world nuclear industry and estimated radiological impacts. (C52, C54, C21, B33; Projections for the years 1975 through 2020). [Data] 461308
radiation monitoring
 An atmospheric tritium and carbon-14 monitoring system. (B33, C52). 490892
 Methods evaluation for the continuous monitoring of carbon-14, krypton-85, and iodine-129 in nuclear fuel reprocessing and waste solidification facility off-gas. (B16, C52, E50). 472574
 Monitoring and removal of gaseous carbon-14 species. (C52). 480083
radioactivity
 Carbon-14 production in nuclear reactors. (E31, E32, E33). 473859
radioecological concentration
 ^{14}C activity and distribution in gaseous effluents from pressurized water reactors. (B33). 472897
radionuclide kinetics
 Determination of the glomerular filtration rate in mice by a total plasma slope clearance of ^{51}Cr -EDTA depending on age and sex. (C21). 466199
reprocessing
 ^{14}C behavior in HTR fuel reprocessing and preliminary evaluation of its release reduction process. (E33, C55). 491928
retention
 The retention and distribution of ^{241}Am and ^{65}Zn , given as DTPA chelates in rats and of [^{14}C]DTPA in rats and beagles. (C21). 469795
scintillation counting
 The effect of volume and quenching on estimation of counting efficiencies in liquid scintillation counting. (E41). [Data] 470898
 New method for the determination of ^{14}C radioactivity in ketone bodies. (B11). 475895
separation processes
 Technical and economic evaluation of the atmospheric containment technology for radioactive isotope releases from nuclear fuel reprocessing plants. Environmental Study No. 2. (C52, B16). [Data] 466285
troposphere
 Determination of the radiocarbon flow from stratosphere to troposphere using the data on ground level concentrations of cosmogenic isotopes. (B33). 479701
vht reactor
 ^{14}C behavior in HTR fuel reprocessing and preliminary evaluation of its release reduction process. (E33, C55). 491928
CARBON 14 BEAMS:
beam production
 Production of a negative ^{14}C beam using tantalum carbides. (E16, B23). 491596
radiation doses
 Microdosimetry of 400 MeV/AMU ^{12}C and 450 MeV/AMU ^{40}Ar beams. (C11, C55). 460977
CARBON 14 COMPOUNDS:
absorption
 Removal of ^{14}C -contaminated CO₂ from simulated LWR fuel reprocessing off-gas by utilizing the reaction between CO₂ and alkaline hydroxides in either slurry or solid form. (E51, B16). 480837
autoradiography
 Autoradiographic investigations on the distribution of methacrylic acid methyl esters- ^{14}C in the rat after implantation of 'Kalloryl K'. (C21). 487295
chemical preparation
 Chemical preparation of ^{14}C - and ^{35}S -labelled alkylsulfonates. (B13). 486704
 Method for preparing ^3H - and ^{14}C -labelled organic compounds. (B13). 476124
 Synthesis of ^{14}C and ^{32}P double labelled triethylphosphine. (B13). [Data] 493764
 Synthesis of 2-(4-methoxyphenyl)ethanol[ring-1- ^{14}C]. (B13). 462773
four-pi counting
 Direct gas phase determination of tritium or carbon-14 labeled hydrogen cyanide by internal counting method. (E41). 463750
furans
 Synthesis of organic compounds labelled in a certain position with C14. (B13). 460548
labelled compounds
 New method for isotopic labelling of organic compounds involving organoboranes. (B13). 490445
lipids
 In vitro incorporation of acetate 1- ^{14}C into goat testicular lipids. (C31). 463260
low level counting
 Monitoring of radioactive gases in air by adsorption. (C55, E41). 484694
metabolism
 Biosynthetic studies on linalool and linalyl acetate in *Ocimum canum* Sims and *Mentha citrate* Ehrh. (C31). 482118
 Influence of kinetin and morphactin on ^{14}C incorporation into alcohol soluble and insoluble substances during feminization of castor (*Ricinus communis* L.). (C21). 482093
multiplets
 Stalking singlet oxygen. (A12, C11). 485445
photolysis
 Investigations on the uv-induced decomposition of tributyl-tin biocide with the aid of its ^{14}C -labelled analogs. (B13). 486711
quaternary compounds
 Synthesis of organic compounds labelled in a certain position with C14. (B13). 460548
respiration
 An improved technique for the determination of respiratory $^{14}\text{C}_2$ as Ba $^{14}\text{CO}_2$, utilizing thermal decomposition in a sample oxidizer. (B11, C21). 462668
scintillation counting
 An improved technique for the determination of respiratory $^{14}\text{C}_2$ as Ba $^{14}\text{CO}_2$, utilizing thermal decomposition in a sample oxidizer. (B11, C21). 462668
tracer techniques
 Active transport of thiamine by freshly isolated rat hepatocytes. (C45). 469867
 Effect of leaf age on light and dark $^{14}\text{CO}_2$ fixation in a CAM plant, *Bryophyllum calycinum*. (C45). 469883
 Elevation of the salvage synthesis of ribonucleic acid in the rat liver during the induction of hepatoma with 3'-methyl-4-(dimethylamino)azobenzene. (C45). 473183
 Isotopic quaternary diffusion of carbon tetrachloride-benzene-cyclohexane system. (A13). 464176
 Metabolism of injected flavins studied by using double-labeled [^{14}C]flavin adenine dinucleotide and [^{14}C , ^{32}P]flavin mononucleotide. (C45). 476657
 Photosynthetic and light-enhanced dark fixation of $^{14}\text{CO}_2$ from the ambient atmosphere and ^{14}C -bicarbonate infiltrated through vascular bundles in maize leaves. (C41). 469848
 Studies on the non-essential amino acids in fowl nutrition. (6, C44). 473152
translocation
 Photosynthesis and translocation in rice during ripening as influenced by different light intensities. (C41). 482127
 A study of carbon-14 transport in the three-component system: $^{14}\text{CO}_2$ -CO-H₂. (B13, B12). 465448
uptake
 In vitro incorporation of acetate 1- ^{14}C into goat testicular lipids. (C31). 463260
uracils
 Method of preparing pyrimidine derivatives universally labelled with ^{14}C . (B13). 481714
wood
 The hydrothermal decomposition of C14 labelled plant material. (B12). 460451
CARBON 14 REACTIONS:
generator-coordinate method
 Generator-coordinate study of ^{14}C + ^{16}O molecular resonances. (A33). 478637
r matrix
 Generator-coordinate study of ^{14}C + ^{16}O molecular resonances. (A33). 478637
CARBON 14 TARGET:
oxygen 16 reactions
 Elastic scattering of ^{10}O from ^{14}C . (A34; 15 to 30 MeV (c.m.): excitation functions). [Data] 486334
proton reactions
 ^{11}C (p vector, γ) ^{13}N reaction. (A34; 9 to 18 MeV: angular distributions, excitation functions, E1 amplitudes and phases). [Data] 486354
 Study of the GDR in ^{13}N using fast neutron capture. (A34). [Data] 472313
CARBON 15:
hypernuclei
 Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
CARBON-NITROGEN-OXYGEN CYCLE:
 See CNO CYCLE

CARBONATES:

See also *CALCITE*; *CALCIUM CARBONATES*; *CERIUM CARBONATES*; *CESIUM CARBONATES*; *DOLOMITE*; *LIEBIGITE*; *MAGNESIUM CARBONATES*; *POLYCARBONATES*; *RUTHERFORDITE*; *SCHROECKINGERITE*; *SODIUM CARBONATES*

chemical radiation effects

Accelerated electron effect on polycarbonate. (B14). 479154

chemical reactions

One-electron reduction of tris(2,2'-bipyridine) and tris(1,10-phenanthroline) complexes of cobalt(III) in aqueous solution. (B14; Pulsed irradiation). [Data] 472543

CARBONIC ACID DERIVATIVES:

See also *AET*; *CYANAMIDES*; *CYANATES*; *DETC*; *THIOCYANATES*; *THIOUREA*; *UREA*

CARBONIC ANHYDRASE:**biochemical reaction kinetics**

³⁵Cl and ⁸¹Br nuclear magnetic resonance studies of carbonic anhydrase. (B12). 486681

CARBONYLS:

(Only for compounds of metals with carbonyl radicals.)

chemical preparation

Simplified in situ syntheses of anhydrous HMn(CO)₅. (B12). 486602

chemical reaction yield

Absence of oscillations in the magnetic field dependence of the rate of carbonylation of nickel. (B12). 465296

dissociation energy

Determination of bond energies by mass spectrometry. Some transition metal carbonyls. (B12). [Data] 460503

electronic structure

¹³C NMR investigation of the structure of cationic carbonyls in transition metal zeolites. (A12). 477709

nuclear magnetic resonance

¹³C NMR investigation of the structure of cationic carbonyls in transition metal zeolites. (A12). 477709

photolysis

High-intensity laser photolysis of OCS at 157 nm: S(¹S) production, photoionization, and loss. (B12). 490397

radiolysis

Transient species in the pulse radiolysis of cyclohexane solutions of group VI metal carbonyls. (B14). [Data] 479162

scintillation quenching

Quenching of excited uranyl ion by metal carbonyls in aprotic solvents. (B13). [Data] 462768

CARBOXYLIC ACID ESTERS:

See also *ACETIC ACID ESTERS*; *ACETOACETIC ACID ESTERS*; *ACRYLIC ACID ESTERS*; *METHACRYLIC ACID ESTERS*

chemical radiation effects

Mechanism of radiation-induced addition reaction of carbon tetrachloride onto liquid 1,2-polybutadiene accompanied by cyclization. (B14). [Data] 490496

chemical reactions

Novel synthesis of 2-selenienylalanine. (B12). 468758

labelling

Nuclear Medicine Technology. Progress report for quarter ending September 30, 1978. (B13, C21, C62). 468914

photochemistry

Radical isomerization and hydrogen-deuterium exchange in reactions of silver p-tert-butylbenzoate. (B12). 460461

pyrolysis

Radical isomerization and hydrogen-deuterium exchange in reactions of silver p-tert-butylbenzoate. (B12). 460461

radio pharmaceuticals

Renal hyperconcentration of /sup 99mTc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of /sup 99mTc-HEDP, -DMSA, and -DTPA in rabbits). 487707

CARBOXYLIC ACID SALTS:

See also *ACETATES*; *ACETOACETATES*; *ACRYLATES*; *CITRATES*; *DETC*; *FORMATES*; *METHACRYLATES*; *OXALATES*; *PTHALATES*

solvent extraction

Mutual effect of elements during extraction of naphthenates. (B12). 490376

CARBOXYLIC ACIDS:

See also more specific entries as listed in the *INIS Thesaurus*.

biosynthesis

Possible contribution of [2-³H] malate and [2, 3-³H] succinate tritium to the same tritiated NADPH pool for participation in fatty acid synthesis. (C31). 463267

chemical radiation effects

Correlative dependences for elementary stages of radiation chemical processes. (B14). 479236

double labelling

Method of producing 3d-hemimellitic acid ³H-labelled in the benzene ring or 3d-hemimellitic acid ³H-labelled in the benzene ring and ¹⁴C-labelled in the carboxyl groups. (B13). 486719

isotope dilution

An assay for diphenoxyl acid in urine using an automated gas chromatograph mass spectrometer system. (C64). 480280

labelling

Nuclear Medicine Technology. Progress report for quarter ending September 30, 1978. (B13, C21, C62). 468914

metabolism

Quality control and pharmacokinetics of ¹¹C, ¹⁸F, sup(34m)Cl, ⁷⁷Br, and ¹²³I labelled fatty acids. (C21, C63). 476614

radiolysis

Aconitic acid decomposition induced by gamma irradiation. (B14). 490494

Radiolysis of binary systems containing sulphhydryl compounds. (B14). 479299

radiosensitivity

Effect of membrane fatty acid composition on the radiosensitivity of E. coli K-1060. (C12). 469620

therapy

Effects of orally administered 2,3-dihydroxybenzoic acid in the exorporation of Am and Pu from the rat. (C21). [Data] 473093

CARCINOGENESIS:

See also *LEUKEMOGENESIS*

Carcinogenesis. (C15, C21). 469687

Cytotoxic, mutagenic and carcinogenic effects of energy-related agents in diploid human cells which differ in DNA repair capacity. Progress report, December 1977-July 1978. (C11). 460984

age dependence

Advisory report on the health effects of radium 226 in drinking water. (C21, B32). 487291

Changing incidence of thyroid cancer. (C62, C50; Role of prior radiotherapy). [Data] 487746

biochemical reaction kinetics

Radiation activation of carcinogens and the role of sup(.)OH and O₂⁻. (C11). [Data] 469582

cell cultures

The oncogenic potential of three different 7, 12-dimethylbenz (a)anthracene transformed C3H/10T1/2 cell clones at various passages and the importance of the mode of immunosuppression. (C14). 490971

comparative evaluations

Assessment of dose-response relationship in carcinogenesis following low radiation dosage. (C14). [Data] 482037

cumulative radiation effects

Radiation exposures of Hanford workers: a critique of the Mancuso, Stewart and Kneale report. (C15, C52, C55). [Data] 461060

dose-response relationships

Breast cancer incidence among atomic bomb survivors: implications for radiobiologic risk at low doses. (C15, B14). 461070

Dose-response relationships for female radium dial workers. (C21). 461104

Inhalation carcinogenesis of high-fired ²⁴⁴CmO₂ in rats. (C21). 461105

Radiation carcinogenesis at low doses. (C14). 466017

Radiation exposures of Hanford workers dying from cancer and other causes. (C15, C52). 463207

Respiratory tract tumors in Syrian hamsters following inhalation of Pu-ZrO₂ particles. (C21; Comparison with incidence of lung tumors following intravenous injection of PuO₂/ZrO₂ microspheres). [Data] 473099

Study on the induction of thyroid tumors in rats using x irradiation in conjunction with a goitrogen. (C14; 1 methyl-2 mercaptoimidazole (methimazole)). [Data] 487219

education

Fifth annual report of cancer research at the University of Chicago. (C11, C62, C15). 472901

fission neutrons

Comments on 'Leukemia risk from Neutrons', and reply by Rossi, H.H.; Mays, C.W. (C15). 487235

RBE for carcinogenesis by fission neutrons, and reply by Rossi, H.H.; Mays, C.W. (C15). 487264

genetic radiation effects

Effect of irradiation to carcinogenesis by transplacental ¹²⁵I ethylnitrosourea in BD-IX rat. (C14). 472987

genetic variability

Rat differences in mammary tumor induction with estrogen and neutron radiation. (C14; Diethylstilbestrol). 487228

geographical variations

Spontaneous cancer mortality rate and its relationship to specific energy consumption. (C15; X and gamma radiation). 491008

information systems

Fifth annual report of cancer research at the University of Chicago. (C11, C62, C15). 472901

inhalation

Lung cancer in experiments with radionuclide and chemical carcinogen inhalation. (C21). 466206

latency period

Thorotrast associated hepatic angiosarcoma with 36 years latency. (C21). 461112

low dose irradiation

Background radiation and estimated risks from low-dose irradiation. (C15, C55). 491005

The issue of low-level dose threshold for carcinogenicity of ionizing radiation. (C14, C15). 465991

morphological changes

Correlation of in vitro transformation with in vivo tumorigenicity in 10T_{1/2} mouse cells exposed to UV light. (C11). 494258

probability

Competitive radiation-induced carcinogenesis: an analysis of data from beagle dogs exposed to ²²⁶Ra and ⁹⁰Sr. (C21, C14). 487303

radiation effects

Carcinogenesis in mice after low doses and dose rates. (C14). 479867

Possibilities and problems in uv radiation carcinogenesis experiments. (C14). 472950

radiotherapy

Epidemiological statistics on late lesions in persons treated with radium-224. (C21, C55). 466218

Ionising rays and laryngeal carcinomas. (C15). 490997

radon

Dose conversion factors for radon daughters. (C55, C21, C15). [Data] 491261

- risk analysis**
Breast cancer incidence among atomic bomb survivors: implications for radiobiologic risk at low doses. (C15, E14). 461070
Can animal and in vitro studies give new, relevant answers to questions concerning mammographic screening for human breast cancer. (C15, C61). 487242
Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
Offspring of patients treated for cancer in childhood. (C15). 487260
Postirradiation sarcoma of bone. A perspective. (C15, C63). 469727
Risk of breast cancer following low-dose radiation exposure. (C15, C61, C63). 490984
Tumorigenic action of beta, proton, alpha, and electron radiation on the rat skin. Progress report, August 1, 1977-January 31, 1979. (C14). 461031
- sex dependence**
Changing incidence of thyroid cancer. (C62, C50; Role of prior radiotherapy). [Data] 487746
- synergism**
Experimental study of the combined effect of cigarette smoke and an active burden of radon-222. (C14, C21). 482019
- temporal dose distributions**
Lung cancer in man in relation to different time distribution of radiation exposure. (C15). 487259
- time dependence**
Time and dose factors in carcinogenesis. (C15, C14). 487236
- ultraviolet radiation**
Inhibiting effects of caffeine on UV-irradiated cancer in mice. (C14). 479879
- CARCINOGENS:**
Carcinogenesis. (C15, C21). 469687
Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001
- biochemical reaction kinetics**
Arylamidation and arylation by the carcinogen N-2-fluorenylacetylamine: a sensitive and rapid radiochemical assay. (C62; ¹⁴C tracer technique). [Data] 487688
Cancer and Toxicology Section. (C15). 472990
- biological effects**
Mammalian cell biology. (C11; Fast neutrons, x radiation, solar radiation). 469579
- metabolism**
Cancer and Toxicology Section. (C15). 472990
- radiation chemistry**
Radiation activation of carcinogens and the role of sup(OH) and O₂⁻. (C11). [Data] 469582
- radioassay**
Arylamidation and arylation by the carcinogen N-2-fluorenylacetylamine: a sensitive and rapid radiochemical assay. (C62; ¹⁴C tracer technique). [Data] 487688
- radiolysis**
Chemical mechanisms of the interaction between radiation and chemical carcinogens. (B14). 460587
- radiosensitivity**
Effect of tumor promoters, protease inhibitors, and repair processes on x-ray-induced sister chromatid exchanges in mouse cells. (C11). 487184
- CARCINOMAS:**
afterloading
Remote afterloading high dose rate intracavitary radiotherapy for head and neck cancer. (C63). 482472
alpha particles
External alpha radiation-induced occupational basalomas. (C15). 476597
biological radiation effects
Basic and clinical studies on the simultaneous combination treatment of cervical cancer (especially advanced cases) with a carcinostatic agent and radiation. (C15). 473017
Cytological test as a criterion for estimation of the effect of distant gammatherapy for cervical cancer under various oxygen supply regimen. (C15). 469712
Electron microscopic observations of the stroma in carcinoma of the uterine cervix. (C15). 482068
biomedical radiography
Roentgenological and radioisotope investigation in diagnosis of uterine cervix carcinoma. (C62). 482442
The Selectron, a device for afterloading in the radiation of cervix carcinomas. (C63). 476814
bladder
Carcinoma of the bladder - the present situation. (C63). [Data] 480274
delayed radiation effects
Biological and morphological features of radiation-induced tumors. Parallels between clinic and experiment. (C15, C21). 466170
diagnosis
Diagnosis of head and neck malignant tumors by scintigram using ⁶⁷Ga-citrate. (C62). 476812
Thyroid scintigraphy with time-coded aperture. (C62; /sup 99mTc-perchnetate; comparison of time-coded aperture imaging and pinhole imaging techniques). 473449
etiology
Carcinoma of the thyroid. (C15). 463212
female genitals
Radiation treatment policy for carcinoma vagina. (C63). 484766
fractionated irradiation
Use of different models for the estimation of fractionated regimens of intracavitary gamma-therapy of uterus cervix cancer. (C15). 469715
- growth**
Growth kinetics and regression of pulmonary cancer as an indicator of neoplasm radiosensitivity. (C15). 479886
- histology**
Biological properties and radiation responses of the hamster uterine cervical squamous cell carcinoma. (C14). 479824
- immunology**
Biological properties and radiation responses of the hamster uterine cervical squamous cell carcinoma. (C14). 479824
- lungs**
Repopulation of γ-irradiated Lewis lung carcinoma by malignant cells and host macrophage progenitors. (C14, C63). [Data] 463181
- miners**
Bronchogenic carcinoma in uranium miners. 2. Biochemical changes. (C15). 466183
Lung cancer under various radiation exposure conditions. (C15, C21). 466178
- mitomycin**
Preoperative infusion of mitomycin-C in the bronchial artery in squamous cell carcinoma of the lung. (C61). 491276
- morphological changes**
Alterative and repair processes in cancerous and non-cancerous lung tissues following various types of radiotherapy and chemiradiotherapy. (C15). 466154
- pharynx**
Radiation technique in carcinoma nasopharynx. (C63). 482484
- radiation effects**
Adenocarcinoma of the gallbladder in guinea pigs. (C14; Sex-dependent incidence following whole-body γ- or x irradiation). 461042
Dose-response relationships for female radium dial workers. (C21). 461104
Hodgkin's disease terminating in oat cell carcinoma of the lung. (C15, C63; Carcinogenic side effects of chemotherapy and radiotherapy). 487240
Inhalation carcinogenesis of high-fired ²⁴⁴CmO₂ in rats. (C21). 461105
Metastatic cancer in guinea pigs irradiated with grenz rays. (C14). 466136
- Multiple carcinomas following therapy for Hodgkin disease. (C15, C63; Sensitizing effects of subsequent chemotherapy). 466171**
Radiation oncology. (C15). 461062
Rat differences in mammary tumor induction with estrogen and neutron radiation. (C14; Diethylstilbestrol). 487228
Recent cases of radium-induced malignancy. (C21). 479934
Respiratory tract tumors in Syrian hamsters following inhalation of Pu-ZrO₂ particles. (C21; Comparison with incidence of lung tumors following intravenous injection of PuO₂/ZrO₂ microspheres). 473099
- radioisotope scanning**
Roentgenological and radioisotope investigation in diagnosis of uterine cervix carcinoma. (C62). 482442
- radiotherapy**
Aspiration biopsy of intrapelvic metastases of cervical carcinoma. (C63). 470190
Carcinoma of the eyelid. (C63). 461424
Clinical significance of bladder dosimetry in cases of carcinoma cervix treated by intra-cavitary radiotherapy. (C55). 461364
Combination therapy of local tumour recurrence in patients with breast cancer. (C63). 482487
Concomitant hydroxyurea and irradiation. Clinical experience with 100 patients with advanced head and neck cancer at Pennsylvania Hospital. (C21, C60). 469765
Dose and dose rate in ¹⁹²Ir interstitial irradiation for carcinoma of the tongue. (C64, C21). 461432
Efficiency of associated radiotherapy of uterine cervix carcinoma using for intracavitary irradiation ²⁵²Cf and ⁶⁰Co. (C63). 494571
Estimation of remote gamma-therapy efficiency in combined and associated radiotherapy of uterine cervix carcinoma with regard of nominal standard dose. (C63). 494651
External small-field irradiation of cervical carcinoma with linear accelerator. (C63). 461430
Histopathological studies of lymph node metastasis in patients preoperatively irradiated for gastric cancer. (C63). 476819
Irradiation alone or in combination with surgery in stage IB and IIA carcinoma of the uterine cervix. (C15). [Data] 476593
Isotope applications on uterine cervix cancer. (C64). 482494
Low-dose preoperative radiation therapy in carcinoma of the supraglottic larynx. (C63). 470202
Morphological and biochemical studies of the rectum neoplasms in radiation therapy. (C63). 470197
Non-metastasized carcinoma of the prostate with spread outside the capsule, treated by megavolt irradiation. (C15). 476600
Radiation oncology. (C15). 461062
Radiation technique in carcinoma nasopharynx. (C63). 482484
Radiation treatment policy for carcinoma vagina. (C63). 484766
Radiotherapy of bladder cancer. (C63). 473507
Result of radiation therapy for inoperable pancreas cancer. (C63). 482476
Results of combined treatment of uterine cervix carcinoma for the case of pre-operation irradiation by bremsstrahlung (25 MeV) and gamma radiation of ⁶⁰Co. (C63). 494635
Results of high energy x-ray therapy of gastric carcinoma, 2. (C63). 482462
Slim ¹⁹⁸gold-grain implanter loaded with standard royal marsden 14-grain magazines. (C21). 476608
Surgical transplantation of the ovaries for reduction of radiation loading in combined therapy of cervix uteri cancer. (C15). 469725
Total biological dose and analysis of dose rate in the radiation treatment of carcinoma of uterine cervix-phase I. (C63). 482475

- The treatment of difficult cutaneous basal and squamous cell carcinomata with electrons. (C63). 491367
- response modifying factors**
- Carcinoma of cervix and HBO, and reply by Dische, S. (C63, C15). 491378
- Relative efficacy of high-pressure oxygen and misonidazole to reduce TCD50 of a mouse mammary carcinoma. (C63). 491376
- therapy**
- Cell-mediated immunity in operable bronchial carcinoma: the effect of injecting irradiated autologous tumour cells and BCG. (C62). [Data] 473480
- urogenital system diseases**
- Aspiration biopsy of intrapelvic metastases of cervical carcinoma. (C63). 470190
- Progress in the medical sciences in single representations. (C63). 482468
- CARDIAC OUTPUT:**
- See *BLOOD CIRCULATION*
- CARDIAC PACEMAKERS:**
- fabrication**
- Cardiac pacemaker and its production methods. (D21). 466466
- radioisotope batteries**
- Cardiac pacemaker and its production methods. (D21). 466466
- CARDIOGRAPHY:**
- See also *RADIOCARDIOGRAPHY*
- computer-graphics devices**
- Design and implementation of an equipment intended for continuous follow up of cardiac flow from the gamma-cardiogram. (C31). 473120
- image processing**
- Image segmentation applied to the delineation of ventricles on a series of cardiac scintigrams. (C31). 469835
- monocarboxylic acids**
- Development of new radiopharmaceuticals. (C21, B13, C64). 482080
- radiopharmaceuticals**
- Development of new radiopharmaceuticals. (C21, B13, C64). 482080
- CARDIOTONIC GLYCOSIDES:**
- See *CARDIOTONICS*
- CARDIOTONICS:**
- See also *DIGOXIN*
- radioimmunoassay**
- Methods for the determination of cardiac glycosides. (C62). 476793
- tracer techniques**
- Clinical evaluation of Prosillaridin-A with radioisotopes. (C62). 484733
- CARDIOVASCULAR DISEASES:**
- See also *ARTERIOSCLEROSIS; HYPERTENSION; ISCHEMIA; MYOCARDIAL INFARCTION; THROMBOSIS*
- aorta**
- Deviation of the descending aorta associated with enlarged left atrium. (C61). 480258
- biomedical radiography**
- Displacement of left ventricle in atrial septal defect. (C61). 461389
- Total anomalous pulmonary venous return in association with tetralogy of fallot. (C61). 461376
- diagnosis**
- Clinicopathologic findings in 52 patients studied by technetium-99m-stannous pyrophosphate myocardial scintigraphy. (C62). 487724
- Diagnostic value of visualization of the right ventricle using thallium-201 myocardial imaging. (C62, C61, C60, C31). 487702
- Effects of maximal exercise stress on left ventricular function in patients with coronary artery disease using first pass radionuclide angiocardigraphy. (C62, C31; /sup 99mTc-pertechnetate). 487699
- Evaluation of aortic regurgitation using radioisotopes. (C45). 463353
- Imaging experimental infective endocarditis with indium-111-labeled blood cellular components. (C62, C21; Rabbits, aortic valve). 487730
- Myocardial accumulation of labeled phosphate in malignant pericardial effusion. (C62; /sup 99mTc-pyrophosphate). 487727
- Nuclear medicine in cardiovascular disease. (C62). 491360
- R-wave synchronized blood-pool imaging. (C62, C61; /sup 99mTc-red blood cells). 487743
- The relationship between left ventricular ejection fraction measured by first transit time-activity and functional classification of the cardiac patients. (C62). 491339
- Thallium-201 myocardial scintigraphy in patients with triple-vessel disease and ischemic exercise stress tests. (C62). 487710
- Thallium-201 myocardial imaging for evaluation of right-ventricular overloading. (C62). 470124
- Transient defects of resting thallium scans in patients with coronary artery disease. (C62). 487689
- Use of the isotopic dilution curve in the diagnosis of tricuspid deficiency. (C62). 491344
- diagnostic techniques**
- Evaluation of thallium-201 exercise scintigraphy in coronary heart disease. (C62). 487720
- Thallium-201 scintigraphy in diagnosis of coronary stenosis. (C62). 487685
- lungs**
- Pulmonary abnormalities in mitral valve disease. (C61). 473331
- mortality**
- Spontaneous cancer mortality rate and its relationship to specific energy consumption. (C15; X and gamma radiation). [Data] 491008
- radiation effects**
- Chronic cardiac arrhythmias produced by focused cobalt-60 gamma irradiation of the canine atria. (C14). [Data] 490950
- radiocardiography**
- Cold pressor test in detection of coronary heart-disease and cardiomyopathy using technetium-99m gated blood-pool imaging. (C62). 494567
- tracer techniques**
- Study of the cardiovascular system. (C62). 482424
- veins**
- Total anomalous pulmonary venous return in association with tetralogy of fallot. (C61). 461376
- CARDIOVASCULAR SYSTEM:**
- See also *AORTA; ARTERIES; BLOOD VESSELS; CAPILLARIES; CAROTID ARTERIES; CORONARIES; HEART; MYOCARDIUM; PORTAL SYSTEM; VEINS*
- biological radiation effects**
- Neutron and gamma-ray toxicity studies. (C14; Mice, beagles, ¹³³Xe tracer technique). 469625
- chemotherapy**
- Radiation and combined therapy effect on cardiac activity in patients with esophageal cancer. (C15). 466172
- delayed radiation effects**
- Neutron and gamma-ray toxicity studies. (C14; Mice, beagles, ¹³³Xe tracer technique). 469625
- radioisotopes**
- Global and regional assessment of cardiac performance by ECG-gated radionuclide blood pool imaging. (C62). 494564
- radiotherapy**
- Radiation and combined therapy effect on cardiac activity in patients with esophageal cancer. (C15). 466172
- volume**
- Accuracy of ventricular volume estimation. (C62). [Data] 476811
- CARIBBEAN SEA:**
- See also *GULF OF MEXICO*
- CARIBOU:**
- See *DEER*
- CARNALLITE:**
- phase diagrams**
- Investigation into melting point diagram of potassium fluorozirconate with carnallite. (B12). 478906
- CAROTID ARTERIES:**
- biological radiation effects**
- Complications of combined surgery and neutron radiation therapy in patients with advanced carcinoma of the head and neck. (C15, C63). 487252
- Studies on reconstruction of the carotid artery in the neck using arterial vessels irradiated by a large amount of high voltage electron beam. (C11). 476514
- biomedical radiography**
- Therapeutic embolization in the external carotid artery region. (C61). 480212
- blood flow**
- Carotid and regional cerebral blood flow: combined non invasive measurement with radionuclides. (C31). 473113
- Effects of injection site, age, and body position on cervical venous reflux. (C62; /sup 99mTc-DTPA). 470133
- emboli**
- Therapeutic embolization in the external carotid artery region. (C61). 480212
- scintiscanning**
- Effects of injection site, age, and body position on cervical venous reflux. (C62; /sup 99mTc-DTPA). 470133
- The use of isotopic carotid angiography in neoformations of the brain. (C62). 491301
- transplants**
- Studies on reconstruction of the carotid artery in the neck using arterial vessels irradiated by a large amount of high voltage electron beam. (C11). 476514
- CARRIER DENSITY:**
- photolysis**
- H⁺ and D⁺ production in plasmas. (A14). 489103
- CARRIER-FREE ISOTOPES:**
- isotope production**
- Preparation of carrier-free ¹²³I-sodium iodide for medical purposes. (D13). 466442
- CARROTS:**
- meristems**
- Radiosensitivity of tissues from carrot root in culture a correlation with endogenous growth substances. (C13). 463087
- radiosensitivity**
- Radiosensitivity of tissues from carrot root in culture a correlation with endogenous growth substances. (C13). 463087
- CARS:**
- See *VEHICLES*
- CARTILAGE:**
- delayed radiation effects**
- Evaluation of fast neutron beam teletherapy of metastatic cervical adenopathy from squamous cell carcinomas of the head and neck region. (C15, C63; Comparison of efficacy and complications of fast and neutron and mixed (γ + neutron) beam therapy). 461068
- early radiation effects**
- Radiation therapy for early stage carcinoma of the glottic larynx. (C15, C63; Acute effects on arytenoid cartilages). 466161
- radiosensitivity**
- Hyperthermia and the oxygen enhancement ratio for damage to baby rat cartilage. (C14, C63). [Data] 472972
- CASCADE (EXTRACTION):**
- See *EXTRACTION COLUMNS*
- CASCADE IMPACTORS:**
- performance testing**
- Effect of collection substrates on performance and wall losses in cascade impactors. (C52, E42). 469949
- Some operating characteristics of slit jet virtual cascade impactors. (B33, E42). 469570

CASCADE SHOWERS:

| | |
|--|--------|
| Cascade showers generated by muons in an ionization calorimeter. (A22). | 483699 |
| Large-scale emulsion chamber experiment at Mt. Fuji. (A15, A22). | 489390 |
| On the effective layer of electromagnetic cascade generation accounting for the energy spectrum of secondary particles. (A32). | 493143 |
| energy | |
| Effect of errors of measuring blackening and the energy spectrum on the definition of the electron-photon cascade energy. (E41). | 485027 |
| gluon model | |
| Hadronproduction of massive lepton pairs and tests of QCD. (A20, A21; Transverse momentum distribution dependence). | 468003 |
| iron | |
| Determination of the absorption length of energy flux in nuclear cascades for 1-20 TeV energies. (A15). | 489422 |
| On the "depth" dependence of energy flux absorption range in the iron absorber of an ionization calorimeter. (A22). | 468190 |
| plates | |
| Photon spectrum in media with due regard for transition radiation and cascade showers. (A21). | 468012 |
| CASCADE THEORY: | |
| hadron-hadron interactions | |
| Hadron-hadron collisions at large transverse momenta in the new type of quark cascade model. 2. (A21). [Data] | 481371 |
| multiple production | |
| Hadron-hadron collisions at large transverse momenta in the new type of quark cascade model. 1. (A21). | 481370 |
| transverse momentum | |
| Hadron-hadron collisions at large transverse momenta in the new type of quark cascade model. 1. (A21). | 481370 |
| voids | |
| The role of cascades in void generation. (B25). | 469436 |
| CASKS: | |
| accidents | |
| Environmental impact of accidents involving radioactive material shipping systems. (E15, C54). | 476940 |
| Scoping study of spent fuel cask transportation accidents. (C54, E15). | 494461 |
| cooling | |
| Natural convection studies in nuclear spent-fuel shipping casks: computation and experiment. (E15). | 461532 |
| criticality | |
| Benchmark experiments to test plutonium and stainless steel cross sections. (E15). | 461530 |
| Nuclear criticality safety assessment of ORR, NBS, and HFBR fuel element shipping package. (E15). | 470363 |
| elasticity | |
| Uniqueness and stability of endochronic plasticity theory. (E15). | 473644 |
| encapsulation | |
| Charging Facility for drums with radioactive content. (E51, E13). | 466878 |
| fire resistance | |
| DOT 7A FRP box fire test at the INEL. (E15). | 491545 |
| Prediction of thermal capability for a proposed LMFBR spent fuel shipping cask. (E15, E35). | 473651 |
| fires | |
| Thermal analysis of a one-element PWR spent fuel shipping cask. (E15). | 494710 |
| impact tests | |
| Finite element model for nonlinear shells of revolution. (E15). | 487869 |
| manipulators | |
| Telescope tube guidance. (E15). | 476937 |
| packaging rules | |
| Spent fuel transportation in the fuel cycle. (E15). | 473648 |
| performance testing | |
| Description of a materials/coolant laboratory for support of the Breeder Reactor Technology Shipping Program. (E15). | 487875 |
| Safety analysis report for packaging: the ORNL tungsten-shielded cask. (E15). [Data] | 461527 |
| planning | |
| Another institutional issue: standardization of shipping casks. (E15). | 494708 |
| radioactive materials | |
| Container for transport of radioactive materials. (E15). | 482596 |
| safety | |
| Review of criteria for packaging plutonium for transport by air. Technical report. (E15). | 491547 |
| Spent fuel cask. (E15). | 482579 |
| shielding materials | |
| Solid neutron shield development. (E15). | 461520 |
| shock absorbers | |
| High energy absorption checks for a 10-ton UF ₆ cylinder. (E15). | 466515 |
| specifications | |
| Conceptual design of a shipping container for transporting high-level waste by railroad. (E15). | 461538 |
| New developments in the air transport of plutonium. (E15; PAT-1 package.). | 476926 |
| Retrievable storage concept designs. Final report. (E52). | 492268 |
| spent fuel storage | |
| Basket for storing nuclear fuels in a cooling pool. (E15). | 470356 |
| spent fuels | |
| Improvements of containers for heat producing materials. (E15). | 482591 |

| | |
|---|--------|
| transport | |
| Scoping study of spent fuel cask transportation accidents. (C54, E15). | 494461 |
| CASTING: | |
| liquid flow | |
| Investigations of the metal flow and detection of inclusions in casting crankcases using radioisotopes. (D24). | 476880 |
| CASTINGS: | |
| inclusions | |
| Investigations of the metal flow and detection of inclusions in casting crankcases using radioisotopes. (D24). | 476880 |
| inspection | |
| Video Comparator. (E42). | 461887 |
| CASTOR: | |
| carbon 14 compounds | |
| Influence of kinetin and morphactin on ¹⁴ C incorporation into alcohol soluble and insoluble substances during feminization of castor (Ricinus communis L.). (C21). | 482093 |
| hemagglutinins | |
| Tissue distribution of radioiodinated Ricinus lectins. (C21). | 491035 |
| CASTOR OIL: | |
| power transmission lines | |
| A castor oil transmission line for pulse power system HV-200. (E13). | 494701 |
| CAT SCANNING: | |
| (Computerized Axial Tomography scanning.) | |
| Application of protons to computed tomography. (C62). | 466414 |
| Comparison of computer tomography and other imaging modalities in the evaluation of musculoskeletal tumors. (C62, C61, C60; ⁶⁷ Ga-citrate and /sup 99mTc-pyrophosphate). | 487711 |
| Computerised tomographic scintigraphs and radiotherapy. (C64). | 473531 |
| Improvements relating to axial tomographic devices. (E41, C31). | 474062 |
| The scientific basis of computerised tomography. Chapter 1. (C61). | 487668 |
| abdomen | |
| Computed tomography of the abdomen and thorax. Chapter 3. (C61). | 487665 |
| attenuation | |
| Absolute values of attenuation coefficient in computed tomography. (C61). | 491284 |
| Method for attenuation correction in radionuclide computed tomography. (C62). | 466406 |
| beam optics | |
| Arrangement to determine the absorption of a radiation in a three-dimensional section to be examined. (C61). | 482295 |
| blood flow | |
| Measurement of regional cerebral blood volume using the EMI 1010 scanner. (C61). [Data] | 473365 |
| brain | |
| Computerised tomography of the brain. Chapter 2. (C61). | 487658 |
| Computerized tomography (CT), electroencephalography (EEG), and clinical symptoms in severe cranio-cerebral injuries. (C61). | 482310 |
| Intracranial tuberculomas and the CAT scan. (C61). | 482294 |
| chest | |
| Computed tomography of the abdomen and thorax. Chapter 3. (C61). | 487665 |
| children | |
| Computed tomography of infratentorial masses in children. (C62). | 494540 |
| comparative evaluations | |
| Comparison of angiography and CT in diagnosis of primary-malignant bone tumors. (C61). | 494510 |
| Computed tomographic diagnosis of osteomyelitis. (C61, C62; Comparison with biomedical radiography and /sup 99mTc-pyrophosphate scintiscanning). | 470041 |
| Evaluation of three imaging instruments in dogs with liver hematomas: concise communication. (C62, C61, E41; /sup 99mTc-sulfur colloid). | 491323 |
| Metrizamide and radionuclide cisternography in communicating hydrocephalus. (C62, C61, C31). | 494523 |
| data processing | |
| Post-reconstruction method for beam hardening in computerised tomography. (C61). [Data] | 473375 |
| diagnostic techniques | |
| Nuclear medicine computer plays important role. (C45). | 494370 |
| Tomoscan opens up new technology. (C45). | 494371 |
| display devices | |
| Display processing of computed tomography images. (C62). | 466412 |
| errors | |
| Artefacts in CT scanning. (C61). | 491294 |
| head | |
| The reliability of axial computerized tomography in the diagnosis of head injuries. (C61). | 476773 |
| image scanners | |
| Nuclear medicine instrumentation development: DOE program, study group report. (E41, C62, B13). | 474057 |
| images | |
| Comparison of CT images by NaI(Tl) and BGO scintillator detectors. (E41). | 492154 |
| neoplasms | |
| Computed tomography of infratentorial masses in children. (C62). | 494540 |
| nervous system diseases | |
| Stereotactic computer tomography for biopsy of gliomas. (C61). | 491282 |
| optical filters | |
| Effect of additional filter on exposure dose and performance in whole body CT. (C55). | 473321 |

- performance**
Contrast enhanced CT scan and radionuclide brain scan in supratentorial gliomas. (C62, C61, C21; /sup 99m/Tc-pertechnetate). 473409
- radiation dose distributions**
The direct use of CT numbers in radiotherapy dosage calculations for inhomogeneous media. (C63, C55). 491371
- radiation doses**
Determination of gonad, eye and bone marrow doses with EMI-5005 head and whole body scans. (C55). [Data] 491252
Radiation dose related to collimator geometry in the first generation EMI scanner. (C55). 469995
The radiation dose to patients from EMI brain and body scanners. (C55). [Data] 463449
- radiation hazards**
Study of the dose to the thyroid and the eye in computed tomography of the brain. (C15, C60). 469718
- radiotherapy**
The direct use of CT numbers in radiotherapy dosage calculations for inhomogeneous media. (C63, C55). 491371
- resolution**
New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99m/Tc). 473442
Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
Radionuclide computed tomography of the body using routine radiopharmaceuticals. I. System characterization. (C62). 473465
- sensitivity**
New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99m/Tc). 473442
Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
Radionuclide computed tomography of the body using routine radiopharmaceuticals. I. System characterization. (C62). 473465
- solid scintillation detectors**
Comparison of CT images by NaI(Tl) and BGO scintillator detectors. (E41). 492154
- spatial dose distributions**
Radiation dose related to collimator geometry in the first generation EMI scanner. (C55). 469995
- spatial resolution**
The potential resolution of a ¹³⁷Cs computerized tomographic scanner for radiotherapy planning. (C61, C63). [Data] 473347
- specifications**
Improvements in or relating to medical radiographic apparatus. (E41). 474067
- spheres**
Image characteristics of the computer tomograph. Pt. 2. (C61). 473389
- ultrasonic waves**
Ultrasonic divergent-beam scanner for time-of-flight tomography with computer evaluation. (E42, D22). 461876
- x-ray detection**
Arrangement for computer tomography. (C61). 473379
Multichannel X-ray detector. (E41). 474112
Multichannel X-ray detector. (E41). 474111
- x-ray dosimetry**
Comparison of dosimetry and image quality in computed and conventional tomography. (C61, C15, D15). 487667
- x-ray sources**
Arrangement for computer tomography. (C61). 473379
- CATALASE:**
metabolism
Bone marrow transplantation for correction of enzyme deficiency disease. (C14; X radiation, mice). [Data] 466010
- CATALYSIS:**
biological radiation effects
Effects of x-irradiation on lens reducing systems. (C14; Rabbits). [Data] 472954
carbon 14
Use of charcoal adsorption for the microassay of acetyl-CoA hydrolase. (C31; ¹⁴C). 479978
inhibition
Diethyldithiocarbamate enhancement of radiation and hyperthermic effects on Chinese hamster cells in vitro. (C11; By inhibition of superoxide dismutase activity thus enhancing superoxide radical toxicity in the cells). 479759
- CATALYSTS:**
chemical radiation effects
Catalyst composition effect on the yield of catalytic active centers under gamma irradiation. (B14). 481724
Decomposition of hydrogen peroxide on a mixed NiO-MgO catalyst and the effect of ionizing radiation on the catalyst. (B14). 493815
Decomposition of hydrogen peroxide on a two-component NiO-CdO catalyst and the effect of ionizing radiation on its catalytic properties. (B14). 493816
isotopic exchange
The oxygen exchange from O₂/C¹⁸O₂ with surfaces of vanadium pentoxide and alkali metal-promoted vanadium pentoxide catalysts. (B12). 460462
photoelectron spectroscopy
Use of photoelectron spectroscopy to study catalysis and adsorption. (B12; oxidic films of Mo, Re, W, V, Ru, rare earths as catalysts). 468811
- sputtering**
Improvements in or relating to catalysts comprising a particulate substrate with a sputtered deposit of catalytic material. (A13). 462171
- CATAPHORESIS:**
See **ELECTROPHORESIS**
- CATARACTS:**
crystalline lens
The alpha and gamma crystallin content in aqueous humor of eyes with clear lenses and with cataracts. (C45). 476659
delayed radiation effects
Cataract of lens as late effect of ionizing radiation in occupationally exposed persons. (C15). 479888
Influence of a prolonged period of low-dosage x-rays on the optic and ultrastructural appearances of cataract of the human lens. (C15). 490994
Ocular effects of ionising radiation: past and present problems. (C15). 490980
- radiation effects**
Biochemical studies on the ocular lens in relation to cataractogenesis. Final report, July 1, 1968 - December 31, 1978. (C14; X radiation). 479837
Effects of x-irradiation on lens reducing systems. (C14; Rabbits). 472954
Estimated cumulative probabilities for clinical eye lesion occurrence in beagles irradiated at various ages. (C14; Gamma radiation). 479843
[Data] Radiation protection of the lens for patients and users. (C15, C60, C54). 469708
- radiation injuries**
Influence of a prolonged period of low-dosage x-rays on the optic and ultrastructural appearances of cataract of the human lens. (C15). 490994
- CATAWBA-1 REACTOR:**
personnel
Duke power cities training, electrodes for low weld reject rate. (B21, E32). 472604
- CATECHOL:**
See **PYROCATECHOL**
- CATECHOLAMINES:**
biological radiation effects
Ionizing radiation effects on corpus striatum and hypothalamus catecholamine contents in rats. (C14). 466106
brain
Ionizing radiation effects on corpus striatum and hypothalamus catecholamine contents in rats. (C14). 466106
photochemistry
Photochemical decomposition of catecholamines. (C11). [Data] 484458
radioassay
Estimation of systemic catecholamine levels, in the Edible frog, using a radioenzymatic assay. (C45). 491099
radiosensitivity
Cyclic nucleotides and radioresistance. Communication 3. Influence of catecholamines and cyclic nucleotides on radioresistance of bone marrow stem cells in vitro. (C11). 484454
- CATHEPSINS:**
separation processes
Separation and identification of cathepsin of non irradiated and irradiated red-fish (*Sebastes marinus*). (B14). 468975
- CATHODE RAY TUBE DIGITIZERS:**
images
Corrections for screen image distortion in the R7912 transient digitizer. (E42, F51). 470979
- CATHODE RAY TUBES:**
electronic equipment
Intensified CCD for ultrafast diagnostics. (A14). 485676
- CATHODES:**
See also **HOLLOW CATHODES**
configuration
Optimum geometry for strip cathodes or grids in MWPC for avalanche localization along the anode wires. (E41). 492091
current density
Thermal analysis of conical cathode of a plasmatron. (A16). 493016
electric charges
Lateral distribution of cathode charge in a multiwire proportional chamber. (E41). 470916
optimization
Optimum geometry for strip cathodes or grids in MWPC for avalanche localization along the anode wires. (E41). 492091
specifications
Development of spark cathode E-guns. Draft final rept, Phase I, July - October 1978. (A14). 481205
thermal analysis
Thermal analysis of conical cathode of a plasmatron. (A16). 493016
- CATIONS:**
See also **ANTIPROTONS**; **HYDROGEN IONS 1 PLUS**; **HYDROGEN IONS 2 PLUS**; **HYDROGEN IONS 3 PLUS**; **PROMPT PROTONS**; **PROTONS**
electron spin resonance
Gd³⁺ ions ESR in lanthanum perhenate La(ReO₄)₃x4H₂O. (B12). 465352
methoxy radicals
Radical cations stabilized by methoxy groups in aqueous solution. (B14). 490503
- CATS:**
arteries
Stereotactic gamma irradiation of basilar artery in cat. (C14). 461051

- serotonin**
- Effect of nerve activity on the in vivo release of $[^3H]$ serotonin continuously formed from L- $[^3H]$ tryptophan in the caudate nucleus of the cat. (C21). 479940
- CATTLE:**
- See also CALVES; COWS
- contamination**
- Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
- Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
- radioactivity**
- Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
- Transfer factors for assessing the dose from radionuclides in agricultural products. (C22, C21). 491059
- radionuclide kinetics**
- Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
- Transfer coefficients for terrestrial foodchain: their derivation and limitations. (C22, C21). 487316
- CAULIFLOWER:**
- See BRASSICA
- CAVITIES:**
- See also BOREHOLES; CRATERS
- electron microscopy**
- Electron microscopical techniques for the observation of cavities. (B25). 481907
- CAVITY IONIZATION CHAMBERS:**
- See BRAGG GRAY CHAMBERS
- CAVITY RESONATORS:**
- See also SUPERCONDUCTING CAVITY RESONATOR
- accelerator facilities**
- Ferrite measurements for SNS accelerating cavities. (E16). 473674
- beams**
- Time-domain numerical computations of electromagnetic fields in cylindrical co-ordinates using the transmission line matrix: evaluation of radiation losses from a charge bunch passing through a pill-box resonator. (E16, F51). 470412
- coaxial cables**
- Calculation of a complex-configuration coaxial resonator taking into account inhomogeneities. (E16). 487929
- computer calculations**
- Computer calculations of traveling-wave periodic structure properties. (E16). 480478
- eigenvalues**
- Eigenvalue translation method for mode calculations. (A11). [Data] 459676
- electric fields**
- Calculation of characteristics of different resonator accelerating structures with narrow coupling gaps. (E16). 466540
- electromagnetic fields**
- Electrodynamic characteristics of a toroidal resonator and its excitation by a uniformly moving charge. (E16). 494803
- heavy ion accelerators**
- A heavy ion linac using a deformed coaxial cavity. (E16). 482629
- integral equations**
- Prony Method revised. (A11). 459673
- magnetic fields**
- Calculation of characteristics of different resonator accelerating structures with narrow coupling gaps. (E16). 466540
- mechanical vibrations**
- Resonator wall instability under the action of ponderomotive forces in the presence of a feedback circuit for stabilizing resonator excitation current amplitude. (E16). 494804
- performance**
- Improved design for a spiral-resonator postaccelerator for the UW three stage FN tandem accelerator. (E16). [Data] 487891
- plasma density**
- Comments on "Magnetohydrodynamic equilibrium of plasma confined in a spherical microwave cavity". (A14). 478062
- Reply to comments by Albert J. Hatch. (A14). 478194
- plasma instability**
- Comments on "Magnetohydrodynamic equilibrium of plasma confined in a spherical microwave cavity". (A14). 478062
- Reply to comments by Albert J. Hatch. (A14). 478194
- power transmission**
- Matching of beams to laser cavities by means of openings. (A14). [Data] 459851
- synchrotrons**
- Accelerating resonator for an ion synchrotron. (E16). 476960
- travelling waves**
- Computer calculations of traveling-wave periodic structure properties. (E16). 480478
- CCD:**
- See CHARGE-COUPLED DEVICES
- CDTE SEMICONDUCTOR DETECTORS:**
- CdTe and HgI₂ crystals and detectors: present state and future. (E41). 470906
- Low-resistance CdTe nuclear radiation detectors in medical diagnosis. (E41). 485084
- Process for the fabrication of semiconductor detectors, and detectors so made. (E41). 474046
- Solid-state gamma-ray detectors from cadmium telluride. (E41). 477404
- czechoslovak organizations**
- The current state and prospects of the development and production of semiconductor radiation detectors and their application in the Czechoslovak national economy. (E41). 482839
- gamma detection**
- Cadmium telluride and mercuric iodide gamma radiation detectors. (E41). 485135
- R+D work on nuclear radiation detectors on the basis of cadmium telluride monocrystals. (E41, A13). 477362
- performance**
- Semiconductor detectors, recent progress. (E41). 474123
- uses**
- Cadmium telluride \$sup 133\$xe clearance detector for muscle blood flow studies. (C62, E41). 466405
- CEA:**
- See also CEA PIERRELATTE
- nuclear physics**
- Progress report of the Nuclear Physics Division for the year 1977. (A34). 465182
- CEA PIERRELATTE:**
- personnel monitoring**
- Daily radiotoxicological supervision of personnel at the Pierrelatte industrial complex. Methods and results. (C21). 463228
- CELL CONSTITUENTS:**
- See also CELL MEMBRANES; CELL NUCLEI; CHLOROPLASTS; CYTOPLASM; ENDOPLASMIC RETICULUM; LYOSOMES; MITOCHONDRIA; RIBOSOMES
- photoreactivation**
- Effect of photoreactivating light on lethal and pre-mutational UV lesions in Escherichia coli WP2, carrying the R46 mutator plasmid. (C12). 472935
- CELL CULTURES:**
- See also CLONE CELLS
- biological radiation effects**
- Oxygen enhancement ratio as a function of neutron energy with mammalian cells in culture. (C11). 465923
- biological repair**
- Changes in repair of potentially lethal damage with culture age in EMT6 cells. (C11). [Data] 490913
- cadmium 109**
- Cadmium accumulation and metabolism by rat liver parenchymal cells in primary monolayer culture. (C21). 461088
- cobalt complexes**
- Interaction of Cosup(III) complexes with radiation on 'in vitro' mammalian cells and on molecular systems. (C11). 463032
- fractionated irradiation**
- Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- genetic radiation effects**
- Response of cultured mammalian cells to x-rays and ultraviolet light. (C11). 481996
- lymphomas**
- Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- radiation doses**
- The problem of estimating cobalt-60 gamma-ray dose delivered to cell monolayers grown on glass support. (C15). 466186
- radiosensitivity**
- Interaction of Cosup(III) complexes with radiation on 'in vitro' mammalian cells and on molecular systems. (C11). 463032
- Radiation-induced DNA damage in V79 spheroids and monolayers. (C11, C31; γ rays; cultured Chinese hamster (V79) cells). [Data] 476502
- response modifying factors**
- Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- survival curves**
- Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- Relative biological effectiveness for protons of energies up to 31 MeV. (C11; Biological effects studied). 472902
- transplants**
- The oncogenic potential of three different 7, 12-dimethylbenz (a)anthracene transformed C3H/10T1/2 cell clones at various passages and the importance of the mode of immunosuppression. (C14). 490971
- trypsin**
- Changes in cellular heat and/or radiation sensitivity observed at various times after trypsinization and plating. (C11). 490926
- CELL CYCLE:**
- biological radiation effects**
- Flow-microfluorometric analysis of cell cycle progression after exposure to X- or Co- γ -rays and negative pi-mesons. (C11). 460999
- dna replication**
- Delay of cell cycle progression after X-irradiation of synchronized populations of human cells (NHK 3025) in culture. (C11). [Data] 460981
- near ultraviolet radiation**
- The induction of thymine dimers by U.V. light as a function of cell stage. (C11). [Data] 463038
- radiosensitivity**
- Comparison of the protective action of glutathione and cysteamine on radiation-induced mitotic delay in cultured L-5 cells. (C11). 490918
- Different effects of dose rate on radiation-induced mutation frequency in various germ-cell stages of the mouse, and their implications for the analysis of tumorigenesis. (C14). 487227
- DNA damage in synchronized hela cells irradiated with ultraviolet. (C11, C31; Sensitivity in different cell cycle stages could be due solely to differences in chromatin geometry). 460963
- Response of Chinese hamster ovary cells to fast neutron radiotherapy beams. III. Variation in relative biological

- effectiveness with position in the cell cycle. (C11). 460969
Temporal correlations between sensitivity to radiation-induced mitotic delay and the S phase of the sea urchin egg. (C14). 476569
- sensitivity**
Action of caffeine on x-irradiated HeLa cells. III. enhancement of x-ray-induced killing during G₂ arrest. (C11). 460953
- time measurement**
Degeneration and regeneration of the spermatogonial stem-cell system after exposure to ionizing radiation. (C11, C14; Gamma radiation, mice). [Data] 487177
Effects of low-dose x-radiation on the matrix cells in the telencephalon of mouse embryos. (C14). 461046
- CELL DIFFERENTIATION:**
biological radiation effects
Effects of radiation of cells in vivo: a rat mammary gland model. (C14). 469635
- CELL DIVISION:**
See also *MEIOSIS*; *MITOSIS*
- CELL KILLING:**
dose-response relationships
Action of caffeine on x-irradiated HeLa cells. III. enhancement of x-ray-induced killing during G₂ arrest. (C11). 460953
Derivation of cellular survival kinetic parameters for experimental fractionated irradiation of rat skin. (C14; X rays). 461033
- let**
Biophysical studies with spatially correlated ions. 3. Cell survival studies using diatomic deuterium. (C11; Exposure of cultured V79 hamster cells to D₂ molecular ions). 490906
- radiation effects**
Cell killing and the sequencing of hyperthermia and radiation. (C11; x rays; Chinese hamster ovary cells). 472919
Cells, targets, and molecules in radiation biology. (C11). 487175
Mammalian cell biology. (C11; Fast neutrons, x radiation, solar radiation). 469579
Multiple loci affecting photoreactivation in *Escherichia coli*. (C12; uv radiation). 487199
- radiation quality**
Potentially lethal damage. Qualitative differences between ionizing and on-ionizing radiation and implications for 'single-hit' killing. (C11). [Data] 476526
- x radiation**
Tumour-cell killing by X-rays and immunity quantitated in a mouse model system. (C63, C14). 494629
- CELL MEMBRANES:**
biological radiation effects
Fatty acid level and activity of phospholipases in erythrocytes during radiation sickness of rabbits pretreated with cystamine. (C14). 484532
Postirradiation changes in K⁺ transport across lymphocyte cell membranes. (C14). 466119
Stabilizing effect of divalent metallic cations on membranes against thermal and gamma-irradiation damages. (C11). 460949
- biological repair**
'Repair' of fast-neutron and X-ray-induced damage to the permeabilities of red blood cells to sodium and potassium ions and its promotion by ghosts. (C11). 463059
- calcium compounds**
Calcium-dependent process in reduction of cell surface charge after X-irradiation. (C11). [Data] 463056
- chemical radiation effects**
Protection of liposomal lipids against radiation induced oxidative damage. (C11). [Data] 476510
Radiation effects on erythrocyte membrane structure studied by the intrinsic fluorescence. (C11). [Data] 490936
- energy conversion**
On some electronically excited states in biophysical processes. (A12). 485468
- orientation**
Magnetic effects in cellular and molecular systems. (C11). 476499
- radiation effects**
Radiation-induced impairment of sodium and potassium ion transport across multicellular biological membranes. (C11). 463048
- radiation injuries**
Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958
Ultrastructural stereology of x-irradiated epidermis. (C14; Rats). 472948
- radiobiology**
New aspects of cell membrane radiobiology and their impact on radiation protection. (C11). 484448
- radiosensitivity**
Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958
- ultrastructural changes**
Effect of ionizing radiation on transmembrane potential of *Streptococcus*. (C12; γ rays). [Data] 479791
- CELL NUCLEI:**
acute irradiation
Hepatic nuclear low-molecular-weight structural components and their biological properties in irradiated rats. (C14). 466100
- alpha particles**
Cell survival following multiple-track alpha particle irradiation. (C11). 481990
- biological radiation effects**
Micronuclei in peripheral blood cells of *Microtus oeconomus* Pall. living under conditions of enhanced natural radioactivity. (C21). 484567
- Nuclear thread bridging the sister cells prior to radiation-induced cell fusion. (C11; X rays; HeLa cells; marsupial kidney cells). 479778
- biological repair**
Genetic and physiological control of nuclear and mitochondrial UV damage in yeast. (C11, C12). 479765
- early radiation effects**
NAD-pyrophosphorylase activity and NAD⁺ content in thymus nuclei of irradiated rats. (C14). 484536
- hypertonic solutions**
The effects of various salt and sucrose solutions on the U.V.L. sensitivity of CHO cells. (C11). 490929
- radiation doses**
Microdosimetry of radioactive nuclei incorporated into the DNA of mammalian cells. (C21). 466192
- radiation injuries**
Genetic and physiological control of nuclear and mitochondrial UV damage in yeast. (C11, C12). 479765
Ultrastructural stereology of x-irradiated epidermis. (C14; Rats). 472948
- radiosensitivity**
DNA replication and the repair of DNA strand breaks in nuclei of *Physarum polycephalum*. Progress report, September 1, 1977 - July 31, 1978. (C12; Monel). 469606
- CELL PROLIFERATION:**
acute irradiation
Ionizing radiation effects on thymocyte cell cycle and proliferation rate. (C14). 466022
Postirradiation changes in proliferative activity of KV line cells. (C11). 465905
Turtle fibroblast colony-forming efficiency after gamma radiation. (C11, C14). 465932
- biological radiation effects**
Effects of radiation of cells in vivo: a rat mammary gland model. (C14). 469635
- biological recovery**
Irradiation of the microvasculature with fast neutrons. (C14; RBE for capillary damage following canine corneal irradiation). 490951
- mathematical models**
Cell response to chronic irradiation-modeling and simulation studies. (C11; X radiation). [Data] 472926
Ionizing radiation effects on thymocyte cell cycle and proliferation rate. (C14). 466022
- nuclear medicine**
Radioisotope "in vitro" estimation of intensity of proliferative process. (C62, C14). 482362
- tumor cells**
Cell kinetic investigation of an Adenocarcinoma of the mouse. (C31, C21). 482114
- CELLS (ANIMAL):**
See *ANIMAL CELLS*
- CELLS (BACTERIAL):**
See *BACTERIA*
- CELLS (PLANT):**
See *PLANT CELLS*
- CELLS (REACTOR):**
See *REACTOR CELLS*
- CELLULOSE:**
carbon 12
¹²C/¹³C ratio variations in *Pinus longaeva* (bristlecone pine) cellulose during the last millennium. (B31). 469494
- carbon 13**
¹³C/¹²C ratio variations in *Pinus longaeva* (bristlecone pine) cellulose during the last millennium. (B31). 469494
- chemical radiation effects**
Flame resistant cotton fabrics prepared by radiation-initiated polymerization with vinyl phosphonate oligomer and N-methylolacrylamide. (B14). [Data] 486744
Some aspects of the mechanism of cellulose radiolysis. (B14). 472503
- chemical reactions**
Characterization and use of radio frequency plasma-activated natural polymers. (B12). [Data] 486682
- irradiation**
Gamma irradiation of cellulose and some problems of its utilization. (B14). 472509
Radiation pretreatments for optimizing the sugar yield in the acid hydrolysis of waste cellulose. (D23, C41). 484801
- nitrates**
Use of the cellulose nitrate for detection of energetic multicharged ions. (E41). 492126
- radiolysis**
Mechanism of formation and destruction of radicals during cellulose radiolysis. (B14). 479257
Radiation-induced degradation and subsequent hydrolysis of waste cellulose materials. (C11, B14). [Data] 463044
- CELLULOSE ESTERS:**
chemical radiation effects
Some unsolved problems concerned with radiation grafting to natural and synthetic polymers. (B14; γ radiation). [Data] 465485
- radiolysis**
γ radiolysis of cellulose acetate. (B14). 486736
- CEMENTED CARBIDES:**
See *CERMETS*
- CEMENTITE:**
(An intermetallic compound, Fe₃C.)
moessbauer effect
Moessbauer study of the effect of alloying elements on the carbide phase in cold-worked steel. (A13). 485591

CEMENTS:

See also GYPSUM CEMENTS

- binders**
Yttria hydroxy-salt binders. (B24). 460799
- composite materials**
Polymer reinforcement of cement systems. (D23). 491438
- isomer shift**
Moessbauer effect in brazilian portland cement. (A13). 471449
- moessbauer effect**
Moessbauer effect in brazilian portland cement. (A13). 471449
- quantitative chemical analysis**
Determination of the uranium content in Indian Portland cement by nuclear particle etch technique. (B11, C52). 475870
- tracer techniques**
Tracer studies in the cement production. (D22). 473586
- tritium**
Leaching of tritium from a cement composite. (B12, E51). [Data] 481679

CENTRAL NERVOUS SYSTEM:

See also BRAIN; CEREBELLUM; CEREBRAL CORTEX; CEREBRUM; SPINAL CORD; THALAMUS

- biological radiation effects**
Imprinting in chicks exposed to ionizing radiation during embryonic or postembryonic development. (C14). 466079
- Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). 494346
- Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- delayed radiation effects**
Defects of the central nervous system in Finland. IV. Associations with diagnostic x-ray examinations. (C15, C61). 487251
- Multidisciplinary approach to radiation late effects in the brain circulatory system: First results. (C14, C11). 461047
- local irradiation**
Preventive central nervous system irradiation in children with acute nonlymphocytic leukemia. (C15; Complications of γ radiation). 469690
- radiation syndrome**
Emotional sphere alteration dynamics in cats undergoing radiation disease. (C14). 466032
- radiosensitivity**
Chemical radioprotection: current data and perspectives. (C14). 463180
- Endocrine factors influencing radiation injury to central nervous tissue. (C15, C63; Incidence of complication following radiotherapy of pituitary adenomas in patients with acromegaly or Cushing's disease). 472991

CENTRAL NUCLEAR ENRICHMENT REACTOR:

See ATUCHA REACTOR

CENTRIFUGE ENRICHMENT PLANTS:

- Socioeconomic effects of the DOE Gas Centrifuge Enrichment Plant. Volume 1: methodology and analysis. (D11, C50). 491384
- Socioeconomic effects of the DOE Gas Centrifuge Enrichment Plant. Volume 2: appendices. (D11, C50). 491385
- accounting**
Projected uranium measurement uncertainties for the gas centrifuge enrichment plant. (D11). 494653
- Projected uranium measurement uncertainties for the Gas Centrifuge Enrichment Plant. (D11, F41). 466438
- errors**
Projected uranium measurement uncertainties for the gas centrifuge enrichment plant. (D11). 494653
- international organizations**
Urenco-Centec. (F61; Descriptive brochure). 495326
- isotope separation**
The uranium ultracentrifuge. (D11). [Data] 463484
- optimization**
Analysis of strong countercurrent centrifuge experiments. (E11, D11). 473620
- planning**
Current activities and future plans of the Urenco/Centec organization. (D11). 487770
- seismic effects**
Gas Centrifuge Enrichment Plant seismic time history development. (D11). 491383
- uranium 235**
Uranium enrichment. (D11). 487764

CENTRIFUGES:

See also GAS CENTRIFUGES

- pumps**
Improvements to self priming centrifugal pumps. (E51). 474191
- CEPHEIDS:**
Anomalous Cepheid Masses. (A15). 467794
- amplitudes**
A discussion of the Cepheid amplitude behaviour in the instability strip. (A15). 467836
- chemical composition**
Nonlinear calculations for bump Cepheids. (A15; Hydrodynamic model, relaxation). [Data] 485881
- color**
Can reddening of cepheids be determined from mean UVB colours. (A15). 481254
- On the intrinsic colours of cepheids. (A15). 489472
- Variable star research at Los Alamos. (A15). [Data] 478227
- fourier analysis**
TU Cassiopeiae periods and amplitudes. (A15). 489523
- hertzsprung-russell diagram**
Variable star research at Los Alamos. (A15). [Data] 478227

- luminosity**
Nonlinear study of AI Velorum. (A15). [Data] 485857
- mass**
Cepheid masses from observations and pulsation theory. (A15). 489449
- Masses of the double-mode Cepheids and the mass-luminosity relationships of classical Cepheids. (A15). 464652
- photometry**
Observations of double-mode Cepheids. (A15). 492991
- spatial distribution**
Galactic distribution of Cepheids between approx. 294° and 331°. (A15). [Data] 464577
- spectrophotometry**
Three-colour photometry of four suspected double-mode cepheids. (A15). [Data] 462468
- star evolution**
Nonlinear calculations for bump Cepheids. (A15; Hydrodynamic model, relaxation). [Data] 485881
- star models**
Cepheid masses from observations and pulsation theory. (A15). 489449
- CERAMICS:**
autoradiolysis
Effects of irradiation on structural properties of crystalline ceramics. (E52, B14). 474238
- bonding**
Preparation and testing of solid-state Bonded ceramic-to-metal-joints. (B24). 494091
- brazed joints**
Reliability of brazed joints of ceramics with metal. (B21). 465548
- cleaning**
Effect of various gas mixtures on plasma cleaned ceramics. Final report. (E13; Electronic components). 473638
- corrosion**
Experiments to study the effects of interaction of HTR helium with metals, alloys and ceramics. (B15). 486780
- cracks**
Device to measure crack propagation in brittle materials. (E17). 466569
- Evaluation of TFTR neutral beam injector insulator problems. (B23, A14). 486950
- crystal growth**
Nucleation and growth studies by small angle neutron scattering and results for a glass ceramic. (A31). 468236
- degassing**
UHV compatibility of two possible fusion reactor materials: K-ramic/sup R/ and ATJ graphite. (A14). 475097
- etching**
Materials surfaces after ion etching. (B25). 462939
- fabrication**
Glass-ceramic composition for hermetic seals. (B23; Patent). 486947
- films**
PLZT and PZT thin films by RF sputtering. (A13). 474791
- fracture properties**
Fracture toughness and hardness of neutron-irradiated ceramics. (B23, A14). 486958
- grain growth**
Thermally Stimulated Depolarization Currents in ceramic ThO₂. (B23, B12). 481867
- grain size**
Thermally Stimulated Depolarization Currents in ceramic ThO₂. (B23, B12). 481867
- hardness**
Fracture toughness and hardness of neutron-irradiated ceramics. (B23, A14). 486958
- leaching**
Leaching of ceramics under simulated disposal conditions. (B23, E52). [Data] 460792
- A study with auger electron spectroscopy of a number of ceramic specimens after leaching. (B23, E52). 460780
- mechanical properties**
Ceramics for applications in fusion systems. (A14, B25). [Data] 467524
- metals**
Preparation and testing of solid-state Bonded ceramic-to-metal-joints. (B24). 494091
- moessbauer effect**
Application of the Moessbauer spectroscopy to the study of indian ceramic. (A13). 471424
- neutron activation analysis**
Analytical investigations of glazed Islamic pottery. (D22). 482531
- neutron reactions**
Plan to simulate transmutation gas effects in a neutron-irradiated ceramic. (B25, A14). 487019
- nucleation**
Nucleation and growth studies by small angle neutron scattering and results for a glass ceramic. (A31). 468236
- permeability**
Hydrogen transport and solubility in non-metallic solids. (A14). 475002
- physical radiation effects**
Effects of irradiation on structural properties of crystalline ceramics. (E52, B14). 474238
- Fission reactor irradiation of candidate ceramics. (B25, A14). 487020
- Results of in-pile studies of electrophysical properties of piezoceramic materials. (B25). 484319
- Strength degradation and internal strain in irradiated sialon and silicon oxynitride. (B25, A14). 487030
- Thermal diffusivity of neutron-irradiated ceramics. (B25, A14). 487031

- piezoelectricity**
Results of in-pile studies of electrophysical properties of piezoceramic materials. (B25). 484319
- radiosensitivity**
Ionizing radiation effects on technological materials. (B25). 479554
- sample preparation**
Problems in preparing sections of brittle materials. (B23). 486952
Time-saving methods for preparing ceramic materials. (B23). 486962
- seals**
Large ceramics for fusion applications. (A14). 464342
- sintering**
A furnace for the handling of materials at high pressure. (B21, B23). 460667
- south west africa**
Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). [Data] 483958
- stability**
The chemical stability of ceramics. (B23, E52). 460764
- swelling**
Technique for measuring swelling in small ceramic samples. (B23, A14). 486959
- thermal diffusivity**
Thermal diffusivity of neutron-irradiated ceramics. (B25, A14). 487031
- thermal shock**
Thermal shock resistance of ceramics determined by acoustic emission analysis. (B23, E17). 460769
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- titanates**
Results of in-pile studies of electrophysical properties of piezoceramic materials. (B25). 484319
- uses**
Large ceramics for fusion applications. (A14). 464342
- CERATITIS CAPITATA:**
sterilization
Influence of the pupal age on radiosensitivity to gamma radiation of Ceratitidis capitata (Wied.). (C42). [Data] 476642
Sterilization by cobalt 60 of the mediterranean fruit fly Ceratitidis Capitata Wied. (C42). 479984
- CERCARIA:**
See PLATYHELMINTHS
- CEREALS:**
See also BARLEY; MAIZE; MILLET; OATS; RICE; SORGHUM; WHEAT
nuclear reaction analysis
Selection of single grain seeds by $^{15}\text{N}(n, \gamma)^{16}\text{N}$ nuclear reaction for protein improvement. (C41). 484607
- proteins**
Seed protein improvement in cereals and grain legumes. (C41). 463285
- radiometric analysis**
Selection of single grain seeds by $^{15}\text{N}(n, \gamma)^{16}\text{N}$ nuclear reaction for protein improvement. (C41). 484607
- transuranic element transport in agricultural systems (soil to food chain transfer of nuclear fuel cycle radionuclides). Quarterly progress report. (C22, B31, B11). 491064**
- CEREBELLUM:**
x radiation
Distribution of climbing fibres on cerebellar Purkinje cells in X-irradiated rats. (C14). 487208
- CEREBRAL CORTEX:**
biological radiation effects
Morphologic and cytochemical response of rabbit optical cortex on the side of irradiation during ECOG depression. (C14). 465997
- phosphorus 32**
Studies on neurotransmitter-stimulated phospholipid metabolism with cerebral tissue suspensions: a possible biochemical correlate of synaptogenesis in normal and undernourished rats. (C21). 469784
- radiation syndrome**
Waking-and-sleep cycle changes in cats with radiation disease. (C14). 466024
- radionuclide kinetics**
The in vivo binding of ^3H -desipramine and ^3H -chlorpromazine to areas in the rat brain. (C21). 484586
- receptors**
 ^3H -spiroperidol labels serotonin receptors in rat cerebral cortex and hippocampus. (C21). 484555
- CEREBROSPINAL FLUID:**
arteries
The mechanism of ventricle filling with radioactive marked albumen in 'normal pressure' hydrocephalus. (C62). 473431
- dynamic function studies**
 ^{111}In -DTPA cerebrospinal fluid transit in research on the meningeal spread of acute leukemias and malignant lymphomas. (C62). 491325
- circulation of the medullary cerebrospinal fluid. Comparative study of various tracers. (C62). 491304**
- contribution of isotopic data in cerebrospinal fluid (CSF) studies. (C62). 491300**
- metrizamide and radionuclide cisternography in communicating hydrocephalus. (C62, C61, C31). 494523**
- radioisotope scanning**
Cisternography. (C62). 484752
- spectrophotometry**
Computer tomography of the brain and spectrophotometry of the CSF in cerebral concussion and contusion. (C61). 480211
- CEREBRUM:**
See also CEREBRAL CORTEX
biomedical radiography
Quantitative analysis of cerebral circulation with a gamma-camera and a special computer. (C42). 482133
- blood flow**
Regional cerebral flows in hypertensive patients. (C45). 469866
- cat scanning**
CT-scan and RN brain scanning in 204 patients with intracerebral disease. (C62). 494533
- measurement of regional cerebral blood volume using the EMI 1010 scanner. (C61). [Data] 473365**
- radioisotope scanning**
CT-scan and RN brain scanning in 204 patients with intracerebral disease. (C62). 494533
- CERIUM:**
See also CERIUM-ALPHA; CERIUM-GAMMA
activation analysis
Athens $1^0 \times 2^0$ NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
Harrisburg $1^0 \times 2^0$ NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- adsorption**
Radionuclide sorption studies on abyssal red clays. (E52). [Data] 480874
- allotropy**
Cerium. Chapter 4. (B22). 476286
The phase boundary between α' - and tetragonal Ce. (B22). 476263
- chemical analysis**
Quantitative determination of tritium in metals and oxides. (B11). 486554
- chemical reactions**
Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- diffusion**
Contribution to the study of diffusion in rare earth metals and actinides. (B22). 469237
- elasticity**
Elastic properties of cerium at the pressures up to 84 kbar and the temperature of 293 K. (B22). 494050
- electric conductivity**
The temperature coefficient of electrical resistance of cerium up to 15 kbar at 300 K. (B22). [Data] 472625
- element abundance**
Rare earths in barites: distribution and effects on aqueous partitioning. (B31). [Data] 487086
- isotope ratio**
Determination of content of uranium and transuranium element isotopes in spent fuel of WWER-365. (B11, E32). 465254
- lithium 7 reactions**
L-shell x-ray production cross sections due to ^1H , ^4He , and ^7Li ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520
- metallurgy**
Cerium. Chapter 4. (B22). 476286
- neutron activation analysis**
Activation analysis of binary alloys with 14 MeV neutrons. (B11). 493519
[Data] Recent results of the application of nuclear methods in iron metallurgy. (D22). 476871
- neutron reactions**
Measurements of the total neutron cross-section of cerium and thulium in the energy range from 1.8 MeV to 1.8 eV. (A31). 468219
Study of the systematics for (n,2n) reactions. (A34; 14.8 MeV). 460363
- phase diagrams**
The phase boundary between α' - and tetragonal Ce. (B22). 476263
- quantitative chemical analysis**
Acricone - A new reagent for the detection of cerium(IV), chromium(VI), and vanadium(V) in binary or ternary mixtures. (B11). 478865
Analysis of the binary mixtures using the reaction between iron(II) and cerium(IV) sulphate in phosphoric acid medium. (B11). 460410
- radionuclide migration**
Sorption and migration of radionuclides in geologic media. (E52, B31; Quartz monzonite, argillite, alluvium, and tuffs). 471072
- scattering**
Determination of the paramagnetic scattering cross-sections of Ce and Tm at neutron wavelengths between 0.5 Å-3.5 Å. (A31). 489993
- self-diffusion**
Contribution to the study of diffusion in rare earth metals and actinides. (B22). 469237
- solvent extraction**
Distribution ratios and empirical equations for the extraction of elements in pure high level waste solution. (B12, B13). [Data] 460532
Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704
- specific heat**
The specific heat of cerium up to 20 kbar at 300 K. (B22). [Data] 472626
- spectrophotometry**
Indirect photometric determination of microamounts of cerium(IV) using iron (III)-resacetophenone oximate complex. (B11). 468625

- thermal conductivity**
Thermal conductivity of rare earth metals of the cerium subgroup at low temperatures. (B22). 486881
- thermoelectric properties**
Thermoelectric power of cerium up to 6 GPa. (A13). [Data] 462229
- total cross sections**
Measurements of the total neutron cross-section of cerium and thulium in the energy range from 1.8 MeV to 1.8 eV. (A31). 468219
- very high pressure**
Elastic properties of cerium at the pressures up to 84 kbar and the temperature of 293 K. (B22). 494050
- zone refining**
Zone refining of rare earth metals. II. (B21). 486845
- CERIUM ADDITIONS:**
- polarography**
Coterdetermination of cerium and praseodymium in complex nickel alloys for fabrication of cast microwire. (B11). 493545
- CERIUM ALLOYS:**
See also *CERIUM BASE ALLOYS; MISCH METAL*
- catalysis**
Intermetallic compounds as catalysts for hydrogenation of carbon oxides. (B22). 479384
- chemical preparation**
TiInSe₂-TiCeSe₂ system. (B12). 465313
- crystal-phase transformations**
Magnetic and structural phase transition of CeAg at hydrostatic pressure. (B22). 476278
- curie point**
Magnetic and structural phase transition of CeAg at hydrostatic pressure. (B22). 476278
- electric conductivity**
Resistive behavior and intermediate valence effects in La/sub 1-x/Ce/sub x/Pd₃ and CePd/sub 3-x/Rh/sub x/. (B22). 479450
- electronic structure**
Electron spin resonance of Nd³⁺ in d band cubic intermetallic compounds. (B22, A17). 479364
- ferromagnetism**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- ferromagnetism**
NMR study on the coexistence of superconductivity and ferromagnetism in (Ce sub(1-x)Gd sub(x))Ru₂. (A17). [Data] 471950
- fluorescence spectroscopy**
The spectrofluorimetric determination of Cerium in non-ferrous alloys. (B11). 481640
- formation heat**
Formation enthalpies of Ce-Si melts. (B12). 493694
- intermetallic compounds**
On the valence state of Yb and Ce in transition metal intermetallic compounds. (B22). 484175
- Study on crystal structure and magnetic characteristics of Co₂CuCe alloy. (B22). 476244**
- knight shift**
Knight shifts and magnetic susceptibilities of the intermetallic compounds CeCu₄ and CeCu₅. (A13). 492683
- laves phases**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- magnetic properties**
Magnetic excitations in ferromagnetic CeSb. (B22). 479391
- Magnetic ordering and anomalous ground state in CeAl₂. (B22). 479363**
- Rare earth - cobalt permanent magnets with improved mechanical properties. (B22). 479444**
- Temperature dependence of the field induced magnetic form factor of CeSn₃. (B22). 479457**
- magnetic susceptibility**
Knight shifts and magnetic susceptibilities of the intermetallic compounds CeCu₄ and CeCu₅. (A13). 492683
- Magnetic properties of Cesub(x)Eusub(1-x)Bsub(6) solid solutions. (B22, B23). 476238**
- Magnetic susceptibilities and specific heats of Ce-Th alloys. (A13). [Data] 481090**
- On some low-temperature properties of (La,Ce)B₆ alloys. (A13). [Data] 471439**
- phase diagrams**
Cerium-neodymium-silicon system. (B22). 486905
- Magnetic phase diagrams of Cesub(x)Lasub(0.76)Ysub(0.24)sub(1-x)Bi compounds. (B12, B22). [Data] 475923**
- specific heat**
Magnetic susceptibilities and specific heats of Ce-Th alloys. (A13). [Data] 481090
- spin orientation**
Two-dimensionally modulated magnetic structure of neodymium, commensurate-commensurate transitions in CeSb, and the devil's staircase. (B22). 479361
- superconductivity**
NMR study on the coexistence of superconductivity and ferromagnetism in (Ce sub(1-x)Gd sub(x))Ru₂. (A17). [Data] 471950
- CERIUM BASE ALLOYS:**
See also *MISCH METAL*
- magnetic properties**
Induced magnetic form factor of Ce/sub 0.736/Th/sub 0.264/. (B22). 479426
- magnetization**
Induced magnetic form factor of Ce/sub 0.736/Th/sub 0.264/. (B22). 479426
- CERIUM BORIDES:**
- magnetic susceptibility**
On some low-temperature properties of (La,Ce)B₆ alloys. (A13). [Data] 471439
- CERIUM CARBONATES:**
- precipitation**
The precipitation of the lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468839
- CERIUM CHLORIDES:**
- oxidation**
Electrochemical oxidation of cerium in chloride solutions. (B12). 468742
- pyrolysis**
Investigation into thermal decomposition of cesium hexachloro (4) cerate. (B12). 475925
- Thermal stability of thiocarbamide compounds of lanthanum, cerium and praseodymium chlorides. (B12). 476068**
- quantitative chemical analysis**
Determination of light lanthanides by the method of atomic absorption spectrometry. (B11). 493510
- solubility**
The cerium chloride - guanidine (ethanolamine) chloride - water systems at 50, 25 and 18 deg C. (B12). 475975
- CERIUM COMPLEXES:**
- chemical preparation**
Complexes of certain metal ions with polymeric iminodiacetic acids. (B12, B13). 479057
- Uranyl and lanthanide complexes of the 1,2-dipyridylethylene isomers. (B12, B13). [Data] 481690**
- lattice parameters**
Crystallographic data of 4,4'-bipyridine complexes with some lanthanides(3) and Cu(2). (B12). 462695
- nmr spectra**
¹¹⁹P NMR chemical shifts of heteropolycomplexes of Z(Psub(2)Wsub(17)Osub(61))sup(n-) (Z = Ce, Th, U(4)) and their structure in solutions. (B12, B13). 493591
- precipitation**
The precipitation of the lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468837
- The precipitation of lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468838**
- The precipitation of the lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468839**
- proline**
Complexation reaction of metal ions with peptide systems. IV. (B12). 484054
- radiolysis**
Radiolysis of aqueous solutions of Ce(III)-triethylene-tetraamine-hexaacetic-acid complexes. (B14). 472517
- solvent extraction**
Extraction of tetravalent cerium from sulfuric acid solutions. (B12). 478985
- stability**
Electrometric studies of some rare earth metal complexes with phloracetophenone. (B12). 460435
- Studies on lanthanides. Stability constants and thermodynamic functions for the formation of some lanthanides(III) CPTA complexes. (B12). 460512**
- Thermodynamic functions and stability constants of rare earths with monothiodibenzoylmethane. (B12). [Data] 481695**
- CERIUM COMPOUNDS:**
See also *CERIUM BORIDES; CERIUM CARBONATES; CERIUM CHLORIDES; CERIUM FLUORIDES; CERIUM HYDRIDES; CERIUM NITRATES; CERIUM OXIDES; CERIUM PHOSPHATES; CERIUM SILICATES; CERIUM SULFATES*
- arsenates**
Investigations on crystalline cerium arsenate and its alkali metal forms Pt. 3. (B12). [Data] 465342
- chemical reactions**
Spectrophotometric study into the reaction between cerium(3) and ethylenediaminetetramethylphosphonic acid in the presence of hydrogen peroxide. (B11). 468675
- inorganic ion exchangers**
Investigations on crystalline cerium arsenate and its alkali metal forms Pt. 3. (B12). [Data] 465342
- ion exchange**
Thermodynamics of ion exchange of trivalent Cosup(III) or Crsup(III) complex with cerium(III) ions on cation exchange resin. (B12). [Data] 472441
- luminescence**
Energy transfer in cerium-activated silicate glasses. (B25). 494166
- oxidation**
Electrochemical oxidation-reduction of cerium, praseodymium, terbium. (B12). 476084
- Investigation of ozone reactions with cerium, manganese and other metal ions. (B12). 479061**
- phase diagrams**
Magnetic phase diagrams of Cesub(x)Lasub(0.76)Ysub(0.24)sub(1-x)Sb compounds. (B22). [Data] 481791
- quantitative chemical analysis**
Chronopotentiometry. (B11). 493544
- reduction**
Electrochemical oxidation-reduction of cerium, praseodymium, terbium. (B12). 476084
- Kinetics and mechanism of the oxidation of thallous ion by ceric ion. (B12). 465404**
- solubility**
Application of potentiostat method for determination of solubility and diffusion coefficient of some rare earth metals in mercury. (B12). 479035

- solvent extraction**
Calculation of distribution ratios of rare earth elements in multistage counter current extraction with HDEHP. (B12). [Data] 476039
- structural chemical analysis**
Investigations on crystalline cerium arsenate and its alkali metal forms Pt. 2. (B12). [Data] 465341
- thermal expansion**
Anomalous thermal expansion of intermediate valence compounds. (A13). 481136
- CERIUM FLUORIDES:**
- reaction kinetics**
Electrodeposition of chromium in the presence of cerium fluoride addition. (B12). 465403
- CERIUM HYDRIDES:**
- specific heat**
Low-temperature specific heats of cerium and praseodymium trihydrides. (A12). 485435
- CERIUM IONS:**
- adiabatic demagnetization**
Generation of coherent radiation from heat through adiabatic demagnetization of $^{59}\text{Co}^{2+}:\text{Ce}^{3+}:\text{La}_2\text{Mg}_3(\text{NO}_3)_{12}\times 24\text{H}_2\text{O}$ type crystals. (A13). 477948
- CERIUM ISOTOPES:**
See also CERIUM 134; CERIUM 136; CERIUM 139; CERIUM 140; CERIUM 141; CERIUM 142; CERIUM 143; CERIUM 144; CERIUM 149
- interacting boson model**
A study of the Xe, Ba and Ce isotopes in the proton-neutron boson model. (A33). 490093
- CERIUM NITRATES:**
- solubility**
Lithium nitrate-cerium nitrate-water ternary system at 25 deg C. (B12). [Data] 493625
Sodium nitrate-cerium nitrate-water ternary system at 25 deg C. (B12). [Data] 493590
Solubility in water systems; cobalt nitrate-benzamide-water at 25 deg C, cerium nitrate-benzamide-water at 25 deg C. (B12). [Data] 493633
- thermal boundary resistance**
Thermal contact between powdered CMN and solid ^3He below 35 mK. (A17). 475482
- CERIUM OXIDES:**
- chemical preparation**
Preparation, thermal stability and properties of new binary oxides of CeRhO_3 and YRhO_3 . (B12). 476005
- chemical properties**
Rare earth ceramics for MHD-power generators. (B23, A16). 479486
- ENDOR**
ENDOR of trigonal sites of Yb^{3+} in CeO_2 and ThO_2 . (A13). 492570
- leaching**
Optimization of leaching process for sum of rare earth and calcium oxides. (B12; oxides of cerium, yttrium, neodymium). 486672
- physical properties**
Rare earth ceramics for MHD-power generators. (B23, A16). 479486
- reduction**
Voltammetric behaviour of cerium, praseodymium and terbium highest oxides on coal pasty electrode. (B12). 479010
- solid solutions**
Complexes of "two impurity ions-vacancy" type in CeO_2 -rare earth oxide solid solutions. (B12; rare earth: Nd, Sm, Eu, Gd, Dy, Ho, Er, Tm, Yb, Lu). 468887
- solubility**
 $\text{Ce}_2\text{O}_3\text{-SO}_3\text{-H}_2\text{O}$ system at 150 and 200 deg C. (B12). 468696
- thermodynamic properties**
Thermodynamic properties of oxides of cerium, praseodymium and terbium at high temperatures. (B12). 468879
- CERIUM PHOSPHATES:**
- precipitation**
Separation of cerium from a mixture of rare earth phosphates. (B12). 475944
- solid solutions**
Solid solutions in the systems monazite(CePO_4)-huttonite(ThSiO_4), and monazite-Ca sub(0.5)Th sub(0.5) PO_4 . (B12). [Data] 475962
- CERIUM SILICATES:**
- pyrolysis**
Investigation of thermal stability of silicates of trivalent cerium. (B12). 468801
- CERIUM SULFATES:**
- crystal structure**
Crystal structure of cerium dicarbamide-pentahydrate-sulfate $\text{Ce}_2(\text{SO}_4)_3\cdot x\text{ZOC}(\text{NH}_2)_2\cdot x5\text{H}_2\text{O}$ and structural characteristic of rare earth sulfates. (B12). 490394
- crystallization**
 $\text{Ce}_2\text{O}_3\text{-SO}_3\text{-H}_2\text{O}$ system at 150 and 200 deg C. (B12). 468696
- precipitation**
The precipitation of the lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468839
- solubility**
 $\text{Ce}_2(\text{SO}_4)_3\text{-H}_2\text{SO}_4\text{-(NH}_4)_2\text{SO}_4\text{-H}_2\text{O}$ system at 70 deg C. (B12). 468697
 $\text{Ce}_2(\text{SO}_4)_3\text{-H}_2\text{SO}_4\text{-(NH}_4)_2\text{SO}_4\text{-H}_2\text{O}$ system at 20 deg C. (B12). 468698
The system of $\text{Cs}_2\text{SO}_4\text{-NiSO}_4\text{-Ce}_2(\text{SO}_4)_3\text{-H}_2\text{O}$ at 25 deg C. (B12). 476046
- CERIUM 134:**
- nuclear deformation**
Microscopic study of triaxiality in transition nuclei. (A34). 472252
- CERIUM 136:**
- energy levels**
Nuclear data sheets for A=136. (A34). 486440
- nuclear structure**
Nuclear data sheets for A=136. (A34). 486440
- CERIUM 139:**
- mass**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- neutron separation energy**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- CERIUM 140:**
- giant resonance**
E0, E1, E2, E3, and E4 giant resonances in the N = 82 nucleus ^{140}Ce between 4 and 48 MeV excitation energy with inelastic electron scattering. (A34). 478761
- mass**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- multipole transitions**
E0, E1, E2, E3, and E4 giant resonances in the N = 82 nucleus ^{140}Ce between 4 and 48 MeV excitation energy with inelastic electron scattering. (A34). 478761
- neutron separation energy**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- CERIUM 140 TARGET:**
- electron reactions**
E0, E1, E2, E3, and E4 giant resonances in the N = 82 nucleus ^{140}Ce between 4 and 48 MeV excitation energy with inelastic electron scattering. (A34). 478761
- oxygen 16 reactions**
Yrast isomers and possible oblate shape in ^{152}Dy . (A34). 468525
- CERIUM 141:**
- beta decay**
The decay of ^{141}Ce . (A34). [Data] 468495
- mass**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- neutron separation energy**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- radiation monitoring**
Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] 476480
- CERIUM 142:**
- mass**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- neutron separation energy**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- CERIUM 142 TARGET:**
- alpha reactions**
Inelastic scattering of 18 MeV α particles by ^{142}Ce . (A33, A34). 472138
- CERIUM 143:**
- half-life**
Half life of ^{143}Ce . (A34). [Data] 493393
- mass**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- neutron separation energy**
On-line mass measurements of short-lived rubidium and cesium isotopes produced in proton fission of natural uranium. (A34). 460362
- CERIUM 144:**
- adsorption**
Adsorption of radioactive elements on silica gel and its uses for determination of gross activity in urine. (B12, B11). [Data] 462705
Interaction of radionuclides with argillite from the Eleana Formation on the Nevada Test Site. (E52, B31). [Data] 492257
- aerial monitoring**
High altitude balloon sampling program. (B33, B11; Monitoring of radioactivity at selected altitudes in the stratosphere). [Data] 476488
- biological radiation effects**
Alteration by lung lavage of the biological effects from inhalation of a relatively insoluble form of ^{144}Ce by beagle dogs. (C21). 469779
Biological effects of internal ^{228}Th , ^{228}Ra and ^{144}Ce as a function of dose accumulation rate. (C21). 463226
Biological effects of repeated exposure of beagle dogs to relatively insoluble aerosols of ^{144}Ce . IV. (C21). 469738
Comparison of the effects of inhaled alpha- and beta-emitting radionuclides on pulmonary function of the dog. (C21). 469770
Repeated inhalation exposure of rats to aerosols of $^{144}\text{CeO}_2$. I. (C21). 469767
Repeated inhalation exposure of Syrian hamsters to $^{144}\text{CeO}_2$. III. (C21). 469766
Toxicity of ^{144}Ce inhaled in a relatively insoluble form by immature beagle dogs. VI. (C21). 469737

- Toxicity of ^{144}Ce inhaled in a relatively insoluble form by beagle dogs. X. (C21). 469752
- Toxicity of ^{144}Ce inhaled in a relatively insoluble form by aged beagle dogs. VI. (C21). 469753
- Toxicity of inhaled $^{144}\text{CeCl}_3$ in beagle dogs. XI. (C21). 469782
- Toxicity of inhaled beta-emitting radionuclides: an experimental approach. (C21). 469751
- Toxicity of inhaled ^{144}Ce fused aluminosilicate particles in BALB/C mice. II. (C21). 469754
- decontamination**
- Availability of body-deposited cerium-144 for mobilization by DTPA complexon. (C21). 466230
- distribution**
- Fractional energy absorption from beta-emitting particles in the rat lung. (C21; Inhalation of ^{144}Ce aerosols). 469791
- dose-response relationships**
- Toxicity of inhaled $^{144}\text{CeCl}_3$ in beagle dogs. XI. (C21). 469782
- Toxicity of inhaled beta-emitting radionuclides: an experimental approach. (C21). 469751
- dosimetry**
- Suppression of the pulmonary clearance of *Staphylococcus aureus* in mice that had inhaled either $^{144}\text{CeO}_2$ or $^{239}\text{PuO}_2$. (C21). [Data] 476617
- early radiation effects**
- Characterization of acute radiation damage by whole-body irradiation combined with internal exposure to strontium-89, iodine-131, or cerium-144. (C14, C21). 466025
- electrodeposition**
- Kinetic study of the deposition of ^{144}Ce , ^{143}Pr and ^{147}Nd on a platinum anode. (B13). [Data] 460557
- evaporation**
- Some studies of nuclide losses. (E51). [Data] 463770
- excretion**
- Decorporation of radionuclides. (C21). 469750
- Gastrointestinal transit in the pig: measurement using radioactive lanthanides and comparison with sheep. (C31). 461138
- extraction chromatography**
- Separation of the parent-daughter pair, ^{144}Ce - ^{144}Pr by reversed phase chromatography using high molecular weight amine. (B13). 481700
- inhalation**
- Assessment of a cerium-praseodymium-144 inhalation case. (C21, C51). [Data] 473053
- pathological changes**
- Toxicity of ^{144}Ce inhaled in a relatively insoluble form by beagle dogs. X. (C21). 469752
- radiation monitoring**
- EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] 476480
- Radioactivity from nuclear explosions in ground level air and precipitation in Sweden. NaI(Tl)-measurements from mid-year 1972 to the end of 1975. (B33). [Data] 476478
- Radioactivity in the lower stratosphere. (B33, B11). [Data] 476487
- Results of environmental radioactivity measurements in the member states of the European Community for air, deposition, water, milk, 1975-1976. (B33, B32, C43). [Data] 460906
- separation processes**
- Separation of rare earth and transplutonium elements by electromigration method. (B13). 479114
- CERIUM 149:**
- beta-minus decay**
- Half-life measurements of Rb, Sr, Y, Cs, Ba, La and Ce isotopes with $A < 91-98$ and $A < 142-149$. (A34). 486372
- CERIUM-ALPHA:**
- thermoelectricity**
- Behaviour of the thermopower of cerium under pressure up to 7500 MPa. (B22). 465606
- CERIUM-GAMMA:**
- crystal-phase transformations**
- Lattice and spin dynamics of γ -Ce. (B22). 490638
- elasticity**
- Lattice and spin dynamics of γ -Ce. (B22). 490638
- CERMETS:**
- See also *TD-NICKEL*
- binders**
- Properties of tungsten carbide hard metals with Fe-Co-Ni binder in sintered and thermally treated state. (B23). 494081
- electrophoresis**
- Problems of electrophoretic coating of WC-Co particles for preparation of wear-resistant layers. (B23). 490661
- films**
- Stress in cermet films of $(\text{Fe-Ni})_{\text{sub}(1-x)}(\text{SiO})_{\text{sub}(x)}$ system. (B23). 462929
- hardness**
- Properties of tungsten carbide hard metals with Fe-Co-Ni binder in sintered and thermally treated state. (B23). 494081
- microstructure**
- Preparation and structure of sintered carbides. (B23). 481862
- Preparation and structure of sintered carbides. (B23). 481862
- porosity**
- Effects of non metallic impurities on the porosity of WC-Co alloys. (B23). 486963
- sample preparation**
- Preparation and structure of sintered carbides. (B23). 481862
- Preparation and structure of sintered carbides. (B23). 481862
- sintering**
- Problems of electrophoretic coating of WC-Co particles for preparation of wear-resistant layers. (B23). 490661
- CERN:**
- Collision course to success. (E16). 491672
- Hunting particles. (A20). 462531
- water reservoirs**
- Lake water treatment plant for the CERN research centre water supply (Vengeron). (E16, C52). 484868
- CERN AG SYNCHROTRON:**
- See *CERN PS SYNCHROTRON*
- CERN II SYNCHROTRON:**
- See *CERN SPS SYNCHROTRON*
- CERN ISR:**
- (CERN Intersection Storage Rings)
- beam luminosity**
- Quark-antiquark colliding beam machines. (A22, E16). 489931
- electron beams**
- Europe goes clean into the particle future. (E16). 463553
- electron cooling**
- Quark-antiquark colliding beam machines. (A22, E16). 489931
- positron beams**
- Europe goes clean into the particle future. (E16). 463553
- proton-antiproton interactions**
- CERN: PS and SPS performance; proton-antiproton collisions in ISR and SPS; charm particle lifetimes; computer codes for radiation shielding. (E16, A22). 480414
- shower counters**
- A large-area modular electromagnetic shower detector for the CERN Intersecting Storage Rings. (E41, E16). 492051
- superconducting magnets**
- CERN: superconducting magnet for intersection 8; low field magnets for LEP. (E16). 480420
- CERN PS SYNCHROTRON:**
- (CERN 28-GeV Proton Synchrotron)
- on-line control systems**
- The planned replacement of a functioning control system on the CERN 28 GEV accelerator. (E16). 494752
- polarized targets**
- Polarized target experiments at CERN. (A22, E16). 489943
- research programs**
- CERN PS program and low energy anti p proposal. (E16). 480493
- storage rings**
- Final report on the CERN muon storage ring including the anomalous magnetic moment and the electric dipole moment of the muon, and a direct test of relativistic time dilation. (A22, E16). 472068
- CERN SPS SYNCHROTRON:**
- (CERN 400-GeV Proton Synchrotron)
- colliding beams**
- Design study of a proton-anti proton colliding beam facility. Appendix B. (E16). 480410
- Proposed p-anti p colliding beam facility at CERN. (E16). 480430
- data acquisition systems**
- CEDAR (Cerenkov differential counters with achromatic ring focus) project. (E41, E16; 15 to 340 GeV/c). 466760
- liquefaction**
- The multipurpose helium refrigerators/liqefiers for the new CERN experimental area. (E16). 491598
- on-line control systems**
- The data module, the missing link in high level control languages. (E16). 494758
- The on-line repair, improvement and expansion of a working multicomputer control system for the CERN SPS accelerator. (E16). 494724
- performance**
- CERN: PS and SPS performance; proton-antiproton collisions in ISR and SPS; charm particle lifetimes; computer codes for radiation shielding. (E16, A22). 480414
- polarized targets**
- Polarized target experiments at CERN. (A22, E16). 489943
- proton-antiproton interactions**
- CERN: PS and SPS performance; proton-antiproton collisions in ISR and SPS; charm particle lifetimes; computer codes for radiation shielding. (E16, A22). 480414
- refrigeration**
- The multipurpose helium refrigerators/liqefiers for the new CERN experimental area. (E16). 491598
- superconducting magnets**
- Cryogenic design and performance of two quadrupoles used in the CERN hyperon-beam. (E16). 480426
- CESIUM:**
- absorption spectroscopy**
- Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
- Lithium or cesium assay in saturated salt solutions obtained in leaching experiments on bitumen/salt mixtures. (B11). 468643
- activation analysis**
- Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- adsorption**
- Ion-exchange equilibria between montmorillonite and solutions of moderate-to-high ionic strength. (E52; Sodium and calcium forms of montmorillonite). [Data] 480897
- Radionuclide sorption studies on abyssal red clays. (E52). [Data] 480874
- Waste isolation safety assessment program. Controlled sample program publication number 2: interlaboratory comparison of

- batch Kd values. (C52, B31). [Data] 491193
- atom-atom collisions**
- Estimating formulas for calculation of hyperfine structure line shifts and interatomic potentials of alkaline atoms and hydrogen in buffer gases. (A12). 488757
- Experimental determination of the Cs(7S)-rare-gas potential energy curves and of the 6S-7S collision-induced oscillator strengths. (A12). [Data] 474653
- atom-molecule collisions**
- Collisional ionization of atomic cesium by UF₆ and WF₆. (A12). 488908
- chemical reactions**
- Metallographical investigation of cesium interaction with some metals. (B15). 469010
- coster-kronig transitions**
- L_I-L_{sub} 2,3/M_{sub} 4,5/ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730
- crystal structure**
- Neutron diffraction study of liquid cesium structure. (B22). 484254
- desorption**
- The desorption of cesium from Peach Bottom HTGR steam generator materials. (E33, C52, B12). 482773
- diffusion**
- Cesium migration in LMFBR fuel pins. (E35, B25). 480689
- Interatomic potentials, hyperfine structure line shifts and diffusion coefficients of rubidium and cesium atoms in buffer helium. (A12). 463941
- electric conductivity**
- On electric conductivity of dense vapors of alkali metals. (B22). 486895
- Resistivity and thermo-electric power of monovalent, divalent, and trivalent liquid metals. (B22). [Data] 462908
- energy levels**
- Ordering of atomic energy levels in excited states. (A12; Quantum defects, K ordering, zero-energy scattering phase shift). [Data] 488802
- excited states**
- Study of atomic collision processes in excited states of alkali atom by optical double resonance and level crossing. (A12). 467261
- f states**
- Determination of natural radiative lifetimes and Lande factors for highly excited F states in cesium. (A12). [Data] 467249
- fission products**
- Evaluated neutron cross sections and resonance integrals of the fission products with $Z=51-56$. (A33). [Data] 493206
- fluorescence**
- An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- fluorescence spectroscopy**
- Laser excitation spectroscopy of the Cs₂ molecular band at 6270Å. (A12). 477769
- hyperfine structure**
- Atomic-beam experiments at the ISOLDE-facility at CERN. (A12). 477733
- Interatomic potentials, hyperfine structure line shifts and diffusion coefficients of rubidium and cesium atoms in buffer helium. (A12). 463941
- interatomic forces**
- Interatomic potentials, hyperfine structure line shifts and diffusion coefficients of rubidium and cesium atoms in buffer helium. (A12). 463941
- ion-atom collisions**
- Application of semiclassical theory of inelastic scattering to H⁺ + Cs → H(2s) + Cs⁺. (A12). 483225
- Differential elastic cross-section calculation of H⁺ ion on Cs target using uniform and transitional approximations. (A12). 483162
- Electron capture to D_{5/2} sup ts/- and D_{3/2} sup ts0/- repulsive states by D_{5/2} sup ts/- in Cs. (A12). 463963
- L_I-L_{sub} 2,3/M_{sub} 4,5/ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730
- ionization**
- Collisional ionization of atomic cesium by UF₆ and WF₆. (A12). 488908
- ionized gases**
- The electrical conductivity of caesium plasma. (A14). 483323
- isotope ratio**
- Determination of content of uranium and transuranium element isotopes in spent fuel of WWER-365. (B11, E32). 465254
- k shell**
- An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- l-s coupling**
- Ab initio treatment of final-state spin-orbit interactions: Photoionization of the 6s electron in cesium. (A12). 488832
- lande factor**
- Determination of natural radiative lifetimes and Lande factors for highly excited F states in cesium. (A12). [Data] 467249
- liquid metals**
- Metallographical investigation of cesium interaction with some metals. (B15). 469010
- microanalysis**
- Control of the thin layer composition by the method of reaction secondary ion emission. (B11). 486507
- neutron diffraction**
- X-ray and neutron diffraction from liquid alkali metals. (A13). 471473
- nuclear cores**
- Core change polarisation effects in atomic systems. (A12). 471369
- oscillator strengths**
- Oscillator strengths for transitions from excited levels of alkali metal atoms in discrete and continuous spectra. (B12). 493581
- photoionization**
- Ab initio treatment of final-state spin-orbit interactions: Photoionization of the 6s electron in cesium. (A12). 488832
- Extended two-level theory of the exponential index of multiphoton processes. (A12). 485437
- Photoionization of atoms. Progress report, 1 April 1978 - 30 March 1979. (A12; Summaries of research activities at the Univ. Nebraska). [Data] 467298
- Resonant multiphoton ionization of caesium atoms by ultra-short laser pulses at 1.06 μm. (A12). 459749
- precipitation**
- Fission product migration deposition of caesium on oxidised metals. (B15, E33). [Data] 481755
- quantity ratio**
- Preliminary mini experiments on leaching of glass. A report of the situation 1979-03-15. (E52, B24). [Data] 492252
- radiation monitoring**
- Iodine and cesium in oxide fuel pellets and zircaloy-4 cladding of irradiated fuel rods (LWBR Development Program). (B11). 486513
- radionuclide migration**
- Sorption and migration of radionuclides in geologic media. (E52, B31; Quartz monzonite, argillite, alluvium, and tufs). 471072
- rotational states**
- Laser excitation spectroscopy of the Cs₂ molecular band at 6270Å. (A12). 477769
- solvent extraction**
- Solvent extraction of Cs(I) with sodium bismuth iodide into nitrobenzene. (B13). [Data] 493781
- stark effect**
- Highly-excited atoms. (A12). 477768
- thermodynamics**
- Thermal ionization and plasma state of high temperature vapor of UO₂, Cs, and Na: Effect on the heat and radiation transport properties of the vapor phase. (B12). 465333
- thermoelectric properties**
- Resistivity and thermo-electric power of monovalent, divalent, and trivalent liquid metals. (B22). [Data] 462908
- trace amounts**
- Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). 483958
- volatility**
- Volatilization from borosilicate glass melts of simulated Savannah River Plant waste. (E51). 471063
- CESIUM ALLOYS:**
- enthalpy**
- Investigation into thermodynamic properties of alkali metal liquid binary systems at high temperature. (B22). 465651
- Investigation into thermodynamic properties of alkali metal liquid binary systems at high temperature. (B22). 465651
- CESIUM BROMIDES:**
- crystal lattices**
- Study on the phase transformation and peculiarities of Cs₂HgBr₄ crystal structure by NQR method. (A13). 481155
- f centers**
- ESR of F-centers in a relaxed excited state in alkali halide crystals. (A13). 464125
- Optically detected EPR in the relaxed excited states of color centers in alkali halides. (A13). 477853
- molecular structure**
- Optical and vibronic spectra of MnO₄²⁻ in cesium bromide. (B12). 476055
- phase transformations**
- Study on the phase transformation and peculiarities of Cs₂HgBr₄ crystal structure by NQR method. (A13). 481155
- raman spectra**
- Observation of infrared active and silent modes in cubic crystals by hyper-Raman scattering. (A13). 474913
- solubility**
- Solubility of nitrogen in sodium and cesium halide melts. (B12). 479007
- v centers**
- Dynamic properties of [X⁻] centres in cesium halides. (B12). 476052
- CESIUM CARBONATES:**
- chemical preparation**
- Synthesis and some properties of RbHCO₃xMgCO₃x4H₂O and CsHCO₃xMgCO₃x0.5H₂O. (B12). 468871
- CESIUM CHLORIDES:**
- aqueous solutions**
- On redistribution of solvent in the MCl-LiCl₃-H₂O (M = Li, K, Cs) systems from experimental data of specific heat and volume properties. (B12). 476040
- chemical reactions**
- On complexing in binary chloride systems. (B12). 475935
- Study of defluorination process in alkali metal chloride-fluoride melts. (B12). 478962
- crystal growth**
- Growing of copper cesium chloride monocrystals. (B12). 468855
- electron-molecule collisions**
- Energy-related atomic and molecular structure and scattering studies. Annual progress report, July 1, 1978 - June 30, 1979. (A12). 492517
- f centers**
- ESR of F-centers in a relaxed excited state in alkali halide crystals. (A13). 464125
- Optically detected EPR in the relaxed excited states of color centers in alkali halides. (A13). 477853

- gases
Gas complexes in the system $\text{CsCl}/\text{SeCl}_4$. (B12). [Data] 476072
- manganese ions
Exchange interaction of Mn^{2+} ion pairs in CsCdCl_3 . (A13). 477931
- phase diagrams
Study of interaction in systems from scandium chloride and alkali metal chlorides. (B12; Systems: $\text{SeCl}_4\text{-NaCl}$; $\text{SeCl}_4\text{-KCl}$; $\text{SeCl}_4\text{-NaCl-KCl}$; $\text{SeCl}_4\text{-NaCl-CsCl}$). 478937
- phase transformations
Considerations about phase transitions in macroscopic crystals. (A13). 471458
- pyrolysis
Investigation into thermal decomposition of cesium hexachloro (4) cerate. (B12). 475925
- radiolysis
Temperature effect on anion radical Cl_2^- yield during pulse radiolysis of neutral aqueous solutions of potassium, rubidium and cesium chlorides. (B14). 479315
- solubility
Solubility of nitrogen in sodium and cesium halide melts. (B12). 479007
- specific heat
Thermal properties of CsCaCl_3 crystal. (A13). 492618
- spectra
Nuclear quadrupole resonance ^{35}Cl in the complexes of the 5 group element pentafluorides with trifluoride and pentafluoride of chlorine. (B12). 486626
- structural chemical analysis
X-ray investigations of cesium chloride melt structure. (B12). 468751
- suspensions
Considerations about phase transitions in macroscopic crystals. (A13). 471458
- thermal expansion
Thermal properties of CsCaCl_3 crystal. (A13). 492618
- v centers
Dynamic properties of $[\text{X}^-]$ centres in cesium halides. (B12). 476052
- x-ray diffraction
Application of a new 'high pressure' measuring procedure for a four circle diffractometer to the structure investigations of cesium-gold-chloride. (A13). 467386
- CESIUM COMPLEXES:**
- chemical preparation
Alkali metals complexing with acidic type organic reagents in aqueous solutions. (B12; Reagents: phenol, o-cresol, n-bromophenol, butyric acid, caproic acid). 465388
- solvent extraction
Effect of salt composition of aqueous phase on solubility of alkylphenol during extraction of alkali metals. (B12). 465288
- Radiochemical separation of alkali ions by solvent extraction of cryptate complexes. (B13). 493779
- Radiolysis of the bis(1,2-dicarbolyl)cobalt(III) ion in nitrobenzene-bromoform mixture Pt. 3. (B14). [Data] 462786
- structural chemical analysis
Structural studies of precursor and partially oxidized conducting complexes. 18. Synthesis, crystal structure, and X-ray diffuse scattering studies of the new partially oxidized tetracyanoplatinate complex $\text{Cs}_2[\text{Pt}(\text{CN})_4](\text{N}_3)_0.25 \cdot 0.5\text{H}_2\text{O}$. (B12). [Data] 486577
- CESIUM COMPOUNDS:**
See also CESIUM BROMIDES; CESIUM CARBONATES; CESIUM CHLORIDES; CESIUM FLUORIDES; CESIUM HYDRIDES; CESIUM HYDROXIDES; CESIUM IODIDES; CESIUM NITRATES; CESIUM OXIDES; CESIUM PHOSPHATES; CESIUM SELENIDES; CESIUM SILICATES; CESIUM SULFATES; CESIUM URANATES
- adsorption
About mechanism of functioning ion-selective membranes on the base of neutral complexing agents. (B12). 486685
- aqueous solutions
Investigation of aqueous-salt systems containing lithium, rubidium and cesium formates. (B12; Systems: HCOOLi-HCOOMe-O (Me-Na, K, Rb, Cs)). 479064
- chemical bonds
Energy of forbidden zone for inorganic compounds of the AB type. (B12; compounds of Cs, Sr, Ba, Be). 493563
- chemical preparation
Hexamolybdenoferrates (3) of some alkali metals and ammonium. (B12). 484029
- Investigation of formation reactions and synthesis of gallium molybdo-tungstic heteropoly complexes. (B12). 493731
- Synthesis and properties of $\text{A}^+\text{BiS}_2(\text{Se}_2)$ ternary compounds (A-Li, Na, K, Rb, Cs). (B12). 468791
- Synthesis and X-ray radiography of rubidium and cesium dioxytetrachloromolybdates (tungstates). (B12). 490339
- chemical reactions
On the stability of cesium hexanitrocobaltate in aqueous medium. (B12). 468770
- dehydration
Studying thermal dehydration of double nickel alkali metal pyrophosphates. (B12). 478916
- formation heat
Calorimetric determination of standard formation enthalpy of cesium iodate. (B12). 476054
- ion exchange
Sorption of rare and scattered elements on natural high siliceous zeolites. (B12). 478919
- manganese fluorides
NMR study on magnetic properties of CsMnF_3 crystal above the Neel point. (A13). 485603
- molecular structure
Investigation into geometric structure, force field and vibration spectra of inorganic molecules by means of the ionic model. (B12). 476083
- nuclear magnetic resonance
NMR study on magnetic properties of CsMnF_3 crystal above the Neel point. (A13). 485603
- phase diagrams
Investigation of phase equilibria in systems from niobates of cesium gallium, lithium and gallium. (B12). 479041
- phase transformations
Structural phase transformations in $\text{Cs}_2\text{NaB}^+\text{Cl}_6$ crystals. (A13). 485567
- polarizability
Effective dipole polarizabilities of ions in MX molecules. (B12; cesium halides). 493714
- quantitative chemical analysis
Rubidium RB and cesium Cs. (B11). 468614
- radiochemistry
Radiochemical separation of alkali ions by solvent extraction of cryptate complexes. (B13). 493779
- solubility
Study of cesium dihydroarsenate in heavy water. (B12). 478963
- uptake
Cesium accumulation in mouse brain synaptosomes. (C45). 482177
- CESIUM FLUORIDES:**
- critical field
Influence of Fermi surface anisotropy on $\text{H}/\text{sub c}2(\text{T})$. (A17, B22, B24). 475468
- fermi level
Influence of Fermi surface anisotropy on $\text{H}/\text{sub c}2(\text{T})$. (A17, B22, B24). 475468
- inelastic scattering
Molecular beam measurements of inelastic cross sections for transitions between defined rotational states (j_m) of CsF in collisions with He , Ne , Ar , Kr and Xe , CH_4 , CF_4 , SF_6 , C_2H_6 , N_2 , CO , CO_2 , N_2O , CH_3Cl , CH_3Br , CF_3H , and CF_3Br . (A12). 485411
- lattice vibrations
Lattice-dynamics study of Cs_2SiF_6 with application to the vibronic optical spectra of MnF^{2+} in Cs_2SiF_6 . (B24). [Data] 465710
- optical properties
Lattice-dynamics study of Cs_2SiF_6 with application to the vibronic optical spectra of MnF^{2+} in Cs_2SiF_6 . (B24). [Data] 465710
- phase diagrams
Interaction of complicated fluoroaluminates of potassium, rubidium and cesium. (B12). 478875
- Interaction of rubidium and cesium hexafluoroytrates and hexafluoroprasodymates. (B12). 478890
- Physicochemical investigation of ternary system containing rubidium, cesium hexafluoroerbiates and rubidium hexafluoroaluminates. (B12). 478892
- phase studies
Physicochemical investigation of the $\text{K}_2\text{TiF}_6\text{-Rb}_2\text{AlF}_6\text{-Cs}_2\text{AlF}_6$ system. (B12). 478877
- solvation
Solvate-formation in the $\text{HCOOH-Rb}(\text{Cs})\text{PF}_6\text{-H}_2\text{O}$ systems. (B12). 465378
- CESIUM HYDRIDES:**
- solubility
System of $\text{Cs}_2\text{B}_{12}\text{H}_{12}\text{-CsI-H}_2\text{O}$ at 25 deg C. (B12). 475980
- System of $\text{Cs}_2\text{B}_{12}\text{H}_{12}\text{-Cs}_2\text{SO}_4\text{-H}_2\text{O}$ at 25 deg C. (B12). 475981
- CESIUM HYDROXIDES:**
- solubility
Solubility of components in the ternary system of potassium hydroxide-cesium hydroxide-water at -20 - 80 deg. (B12). 475995
- CESIUM IODIDES:**
- acoustic nmr
Nuclear acoustic resonance study on behaviour of incoherent phonons in crystals. (A13). 492622
- Uncoherent phonons at the resonance interaction of acoustic waves with the spin-system. (A13). 477882
- f centers
ESR of F-centers in a relaxed excited state in alkali halide crystals. (A13). 464125
- Optically detected EPR in the relaxed excited states of color centers in alkali halides. (A13). 477853
- monocrystals
Inorganic single-crystal scintillators. (E41). 477387
- nuclear magnetic resonance
Uncoherent phonons at the resonance interaction of acoustic waves with the spin-system. (A13). 477882
- phase diagrams
Systems of $\text{RbI}_2\text{-CdI}_2\text{-PbI}_2$ and $\text{CsI}_2\text{-CdI}_2\text{-PbI}_2$. (B12). 493739
- raman spectra
Observation of infrared active and silent modes in cubic crystals by hyper-Raman scattering. (A13). 474913
- scintillations
Study on the scintillation pulse rise time dependence in crystal CsI upon activator concentration and ionization density. (E41). 495123
- solubility
System of $\text{Cs}_2\text{B}_{12}\text{H}_{12}\text{-CsI-H}_2\text{O}$ at 25 deg C. (B12). 475980
- u centers
U centres in alkali iodides. (A13). 474884
- v centers
Dynamic properties of $[\text{X}^-]$ centres in cesium halides. (B12). 476052
- CESIUM IONS:**
- diffusion
Cesium and lithium diffusion in sodium and potassium chlorides. (B12). 486645
- ion sources
A cesium ion source. (D14). 476839
- Heavy ion fusion program. Half-year report, October 1978 - March 1979. (E16, A14). 491579

- Large aperture contact ionized Cs⁺ ion source for an induction linac. (E16). 480404
- shock waves
Structure of a heavy ion shock in a weakly ionized gas. (A14). 464512
- CESIUM ISOTOPES:**
See also CESIUM 116; CESIUM 119; CESIUM 121; CESIUM 123; CESIUM 125; CESIUM 127; CESIUM 129; CESIUM 131; CESIUM 132; CESIUM 133; CESIUM 134; CESIUM 136; CESIUM 137; CESIUM 143
- beta-minus decay
Half-life measurements of Rb, Sr, Y, Cs, Ba, La and Ce isotopes with $A < 91-98$ and $A < 142-149$. (A34). 486372
- collective model
Collective properties of odd-mass Sb, I, Cs, and La nuclei. (A34; Bands, quasi-proton states, unexpected properties). [Data] 493404
- delayed neutrons
Half-lives and delayed neutron emission probabilities of short-lived Rb and Cs precursors. (A34). [Data] 472294
- desorption
The desorption of caesium from Peach Bottom HTGR steam generator materials. (E33, C52, B12). 482773
- mass
Direct measurements of the masses of rubidium and cesium isotopes far from stability. (A34). 478725
- washout
Device for inhibiting discharge and diffusion of radioactivity. (E22). 473785
- CESIUM NITRATES:**
chemical reactions
Interaction of alkali metal nitrates with calcium carbonate and kyanite. (B12). 468830
- solid solutions
Solid solutions in the $\text{KNO}_3\text{-RbNO}_3\text{-H}_2\text{O}$ and $\text{RbNO}_3\text{-CsNO}_3\text{-H}_2\text{O}$ systems. (B12). 465408
- CESIUM OXIDES:**
chemical reactions
The interaction of CsI with high-chromium alloys in the presence of oxygen. (B15). 493828
- intergranular corrosion
Corrosion of austenitic stainless steel by molten $\text{Cs}_2\text{O}_3\text{-CsO}_2$. (B15). 481751
- CESIUM PHOSPHATES:**
chemical preparation
Investigation into interaction of rubidium and cesium with crystalline zirconium phosphate of $\text{Zr}(\text{HPO}_4)_x\text{H}_2\text{O}$ composition. (B12). 475934
- chemical reactions
Molten lithium, rubidium, cesium polyphosphate interaction with oxygen-containing salts and silicon dioxide. (B12). 479013
- phase studies
Physico-chemical investigation of interaction in alkali metal polyphosphates with oxygen-containing salts and silicon dioxide. (B12). 479014
- CESIUM SELENIDES:**
chemical preparation
Synthesis and properties of alkali metal selenoantimonites $\text{A}'\text{SbSe}_2(\text{A}'=\text{Li, Na, K, Rb, Cs})$. (B12). 490372
- CESIUM SILICATES:**
lattice vibrations
Lattice-dynamics study of Cs_2SiF_6 with application to the vibronic optical spectra of MnF^{2+}_2 in Cs_2SiF_6 . (B24). [Data] 465710
- optical properties
Lattice-dynamics study of Cs_2SiF_6 with application to the vibronic optical spectra of MnF^{2+}_2 in Cs_2SiF_6 . (B24). [Data] 465710
- vapor pressure
Comparative study of vapor pressure of alkali metal silicate solutions. (B12). 478967
- CESIUM SULFATES:**
aqueous solutions
Systems of $\text{CsSO}_4\text{-NiSO}_4\text{-H}_2\text{O}$ and $\text{Cs}_2\text{SO}_4\text{-Ce}_2(\text{SO}_4)_3\text{-H}_2\text{O}$ at 75 deg C. (B12). 493676
- chemical preparation
Salts and double salts of rare earths. (B12). 478915
- crystal structure
Salts and double salts of rare earths. (B12). 478915
- infrared spectra
Infrared spectroscopic study on double nickel sulfate hexahydrates. (B12). 476011
- phase studies
Thermographic and x-ray phase investigation of $\text{Li}_2\text{SO}_4\text{-Na}_2\text{SO}_4\text{-Cs}_2\text{SO}_4$ and $\text{Na}_2\text{SO}_4\text{-K}_2\text{SO}_4\text{-Ti}_2\text{SO}_4$ ternary systems. (B12). 478882
- solubility
System of $\text{Cs}_2\text{B}_{12}\text{H}_{12}\text{-Cs}_2\text{SO}_4\text{-H}_2\text{O}$ at 25 deg C. (B12). 475981
- The system of $\text{Cs}_2\text{SO}_4\text{-NiSO}_4\text{-Ce}_2(\text{SO}_4)_3\text{-H}_2\text{O}$ at 25 deg C. (B12). 476046
- x-ray diffraction
X-ray diffraction study on double hafnium sulfates with rubidium and cesium. (B12). 476064
- CESIUM URANATES:**
thermodynamics
Investigations on cesium uranates. Pt. 7. (B12, E11, B16). [Data] 468717
- CESIUM 116:**
energy levels
Evidence for ^{116}Xe quasi-rotational bands populated in the decays of 0.7 sec. and 4.1 sec. ^{116}Cs states. (A34). [Data] 493435
- half-life
Evidence for ^{116}Xe quasi-rotational bands populated in the decays of 0.7 sec. and 4.1 sec. ^{116}Cs states. (A34). [Data] 493435
- CESIUM 119:**
energy levels
Nuclear data sheets for $A=119$. (A33). 478601
- energy-level transitions
Nuclear data sheets for $A=119$. (A33). 478601
- high spin states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- rotational states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- CESIUM 121:**
high spin states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- nuclear structure
Nuclear data sheets for $A=121$. (A34). 486465
- rotational states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- CESIUM 123:**
high spin states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- rotational states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- CESIUM 125:**
high spin states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- rotational states
Collective properties of the odd-mass Cs nuclei. II. /sup 119,121,123,125/Cs. (A34). 468487
- CESIUM 127:**
high spin states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- rotational states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- CESIUM 129:**
high spin states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- rotational states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- CESIUM 131:**
high spin states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- hyperfine structure
DPAC measurements of the magnetic hyperfine fields of Cs and La in Fe and Ni. (A13, A34). 488935
- rotational states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- CESIUM 132:**
energy-level transitions
Estimation of radiation characteristics of 10 widely used radionuclides with complex decay scheme. (A33; ^{52}Mn , ^{75}Se , sup(110m)Ag, ^{125}I , ^{133}Ba , ^{132}Cs , ^{151}Gd , ^{153}Sm , ^{183}Re , ^{233}U , Esub(γ)=21-1434 keV). 493154
- CESIUM 133:**
electron capture
Directional correlation studies in ^{79}As and ^{133}Cs . (A34). 468544
- excited states
Investigation of the de Shalit-multiplet of ^{133}Cs . (A34). 465228
- high spin states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- hyperfine structure
DPAC measurements of the magnetic hyperfine fields of Cs and La in Fe and Ni. (A13, A34). 488935
- multipolarity
Directional correlation studies in ^{79}As and ^{133}Cs . (A34). 468544
- nuclear magnetic moments
Nuclear magnetic moment of the 161 keV state and other spectroscopic investigations of ^{133}Cs . (A34). 472306
- nuclear magnetic resonance
Structural phase transitions in CsPbCl_3 and RbCdCl_3 . (A13). [Data] 481143
- rotational states
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
- CESIUM 133 TARGET:**
alpha reactions
Nuclear magnetic moment of the 161 keV state and other spectroscopic investigations of ^{133}Cs . (A34). 472306
- CESIUM 134:**
chemisorption
On the formation of water-soluble fraction of radioactive cesium in fall-out. (B13). 476151
- desorption
On the formation of water-soluble fraction of radioactive cesium in fall-out. (B13). 476151
- distribution
Influence of particle size on early distribution and retention patterns for inhaled, relatively insoluble particles. (C21). 469789

- gamma radiation**
Counting yield calibration of NaI(Tl) detectors for complex geometry samples by use of californium-252. (E41). 485082
- ion exchange**
Investigation of radiocesium microquantities behaviour in "soil-solution" system. (B11). 478823
- radionuclide kinetics**
Interactions of transuranic wastes with soils. (C22, C21). 461118
Plant injection and leaf smearing techniques for root distribution studies in pearl-millet (Pennisetum typhoides Stapf.) and barley (Hordeum vulgare Linn.) using ^{137}Cs . (C31). 463269
- radionuclide migration**
A radionuclide study of the Clyde Sea area. (B32). 481949
Windscale radiocaesium in the Clyde Sea area. (B32). [Data] 472850
- retention**
Retention of radiocesium by suckling rats as affected by oral supplements of potassium at L-thyroxine. (C21; ^{134}Cs). [Data] 476615
- root absorption**
Comparative availability of cesium and strontium for plant absorption from amended Rupert surface soil and associated subsoil: influence of growth conditions. (B31, C21, C22; Effects of cultivation techniques on ^{134}Cs and ^{89}Sr uptake from soils by cheatgrass and tumbleweed.). [Data] 479570
- soils**
Interactions of transuranic wastes with soils. (C22, C21). 461118
- spatial dose distributions**
The behaviour of radioactive isotopes in liquid metal cooled fast reactors. (E35). 492016
- CESIUM 136:**
- nuclear structure**
Nuclear data sheets for A=136. (A34). 486440
- CESIUM 137:**
- adsorption**
Adsorption of radioactive elements on silica gel and its uses for determination of gross activity in urine. (B12, B11). [Data] 462705
Characteristics of wastes and soils which affect transport of radionuclides through the soil and their relationship to waste management. Annual report FY78. (C52, B31, E52). [Data] 491185
Effect of temperature and hydroxy-Al interlayers on Cs selectivity and fixation in river suspensions and soils. Final report. (B32, B31, C52, B12). [Data] 487135
Interaction of radionuclides with argillite from the Eleana Formation on the Nevada Test Site. (E52, B31). [Data] 492257
Measurement of fission product sorption parameters for Hanford 200 Area sediment types. Progress report. (B31, C52; Comparison of methods for determining distribution coefficients of fission products in selected sediment types at Hanford disposal sites). [Data] 465789
- aerial monitoring**
High altitude balloon sampling program. (B33, B11; Monitoring of radioactivity at selected altitudes in the stratosphere). [Data] 476488
- atmospheric precipitations**
Fallout cesium-137 in atmospheric precipitations collected from the NPP Kozloduj area. (C52). 463379
Fallout cesium-137 to strontium-90 ratios in northeastern Bulgaria. (C22). 466249
- availability**
Sludge utilization and potential isotope source quantities in Europe. (D23). 480334
- biological half-life**
Estimation of ^{137}Cs body burden in Japanese. 2. (C21). 473101
- biological radiation effects**
Toxicity of inhaled beta-emitting radionuclides: an experimental approach. (C21). 469751
Toxicity of injected $^{137}\text{CsCl}$ in beagle dogs. X. (C21). 469783
- body burden**
Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111
- cat scanning**
The potential resolution of a ^{137}Cs computerized tomographic scanner for radiotherapy planning. (C61, C63). 473347
- decontamination**
Removal of radioactive ions from nuclear waste solutions by electrodialysis. (B13, E51). [Data] 476166
Wound adsorption of radioisotopes of alkaline elements, alkaline earth elements, and halogens, and assessment of capabilities for limiting their uptake. (C21). 466200
- diet**
 ^{90}Sr and ^{137}Cs in total diet. (C43). [Data] 491092
- distribution**
Concentrations of ^{137}Cs , ^{210}Po , and $^{239,240}\text{Pu}$ in tissues of Lapps. Preliminary report. (C21, C22; Comparison with concentrations in tissues of southern Finns). [Data] 473075
- distribution functions**
A rapid method for the separation of ^{90}Sr for its determination in a mixture with long-lived fission products. (B11). [Data] 478862
- dose commitments**
 ^{137}Cs in the human body. (C21, C22, C55). 491047
- dose-response relationships**
Toxicity of inhaled beta-emitting radionuclides: an experimental approach. (C21). 469751
- environment**
Environmental radioactivity in Greenland 1977. (B32, B33, C22). [Data] 462976
Environmental radioactivity in the Faroes in 1977. (B32, B33, C22). [Data] 462977
Measurement of fission product sorption parameters for Hanford 200 Area sediment types. Progress report. (B31, C52; Comparison of methods for determining distribution coefficients of fission products in selected sediment types at Hanford disposal sites). [Data] 465789
- evaporation**
Some studies of nuclide losses. (E51). [Data] 463770
- fishes**
 ^{137}Cs and ^{40}K in the flesh of fish of the Indian Ocean and the Straits of Malacca. (C21). 487297
 ^{90}Sr and ^{137}Cs content in fishes. (C21). 484571
- food**
Content of ^{90}Sr and ^{137}Cs of global origin in the food ration of the Soviet Union population in the interval from 1972 to 1975. (C22). 469811
- injection**
Toxicity of injected $^{137}\text{CsCl}$ in beagle dogs. X. (C21). 469783
- leaching**
Long-term leach rates of glasses containing actual waste. (E52). 466905
- licensing**
Licensing and regulatory considerations for cesium-137 irradiators. (D23). 480323
- maximum permissible concentration**
Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). 474265
- milk**
 ^{90}Sr and ^{137}Cs in milk. (C43). [Data] 491093
- milk products**
 ^{90}Sr and ^{137}Cs in powdered milk. (C43). [Data] 491094
- radiation monitoring**
Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111
Caesium-137 in various Chicago foods. (C22). [Data] 479971
Concentrations of ^{137}Cs , ^{210}Po , and $^{239,240}\text{Pu}$ in tissues of Lapps. Preliminary report. (C21, C22; Comparison with concentrations in tissues of southern Finns). [Data] 473075
Cycling of transuranic radionuclides in the Columbia River, its estuary, and the North Pacific Ocean. Progress report, February 1, 1978 - February 15, 1979. (B32). [Data] 494220
EML surface air sampling program: the quality of analysis. 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
Measurement of environmental radioactivity. Ispra 1977. (C52). [Data] 491139
Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] 476480
Radioactivity from nuclear explosions in ground level air and precipitation in Sweden. NaI(Tl)-measurements from mid-year 1972 to the end of 1975. (B33). [Data] 476478
Radioactivity in the lower stratosphere. (B33, B11). [Data] 476487
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
Radiostromium in milk and tap water. (C22, B32; Monitoring of contamination (fallout) in samples collected daily in New York City). [Data] 476624
Results of environmental radioactivity measurements in the Member States of the European Community for air - deposition - water - milk - 1977. (B30). [Data] 490756
Results of environmental radioactivity measurements in the member states of the European Community for air, deposition, water, milk, 1975-1976. (B33, C32, C43). [Data] 460906
- radioecological concentration**
 ^{137}Cs in the human body. (C21, C22, C55). 491047
Environmental monitoring report, Sandia Laboratories 1978. (B32, B31, C21). [Data] 487134
Evaluation of a decommissioned radwaste pond. (E52, C52). [Data] 495226
- radiocesium concentrations in two populations of naturally contaminated feral hogs (Sus scrofa domestica). (B31, C21; ^{137}Cs). [Data] 465793**
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
SRP deer hunt data base. (B31, C21, C52; ^{137}Cs). [Data] 479648
- radioecology**
Certain theoretical and applied aspects of radioecology. (C22). 469809
- radiometric analysis**
Analyses of quality control samples at EML and contractor laboratories during 1978. (B11, C22, B32, B33). [Data] 475878
Non-isotopic indicators in radioanalytical chemistry. (B11). 490312
- radionuclide kinetics**
Interactions of transuranic wastes with soils. (C22, C21). 461118
Repeated occupational contamination from ^{137}Cs inhalation. (C21). 494334
- radionuclide migration**
Effect of deposit feeders on migration of ^{137}Cs in lake sediments. (B31). 469520
Fixation of ^{60}Co and ^{137}Cs on natural sorbents from phenol-polluted water. (B31). [Data] 476468
Radiocesium uptake by a population of cotton rats (Sigmodon

- hispidus) inhabiting the banks of a radioactive liquid waste pond. (C21, C52). [Data] 463233
- A radionuclide study of the Clyde Sea area. (B32). 481949
- Windscale radiocaesium in the Clyde Sea area. (B32). [Data] 472850
- retention**
- Aquatic Ecology Section. (B32, C21; ^{60}Co , ^{137}Cs , ^3H). 479658
- sewage sludge**
- Department of Energy's beneficial uses of radioisotopes program. (D20). 463493
- skin absorption**
- Wound adsorption of radioisotopes of alkaline elements, alkaline earth elements, and halogens, and assessment of capabilities for limiting their uptake. (C21). 466200
- soils**
- Interactions of transuranic wastes with soils. (C22, C21). 461118
- solvent extraction**
- Comparison of some methods of ^{137}Cs isolation from biological material. (B13). [Data] 490462
- A rapid method for the separation of ^{90}Sr for its determination in a mixture with long-lived fission products. (B11). [Data] 478862
- Solvent extraction of alkali metal ion-pairs into nitrobenzene from aqueous-organic solutions. (B13). [Data] 490446
- spatial dose distributions**
- The behaviour of radioactive isotopes in liquid metal cooled fast reactors. (E35). 492016
- Computer calculations of dose-rate distributions from ^{137}Cs used in curietherapy. (C55). 463436
- tracer techniques**
- Cesium accumulation in mouse brain synaptosomes. (C45). 482177
- uptake**
- Study on the strontium- and cesium-uptake of certain plants. (C21). [Data] 479964
- vitrification**
- Conversion of radioactive cyanide compounds. (E51). 471056
- CESIUM 143:**
- energy levels**
- Nuclear spectroscopy of neutron-rich $A = 143$ nuclei. (A34). [Data] 472297
- CFRME REACTOR:**
- neutron spectra**
- Neutron spectrum measurements in CFRME ^6Li spectrometry. (E36). 488182
- CFU:**
- (Limited to colony formation on spleen.)
- biological radiation effects**
- Kinetic basis for compensated hemopoiesis during continuous irradiation with low doses. (C14; γ rays; mice). [Data] 476556
- population dynamics**
- Kinetic basis for compensated hemopoiesis during continuous irradiation with low doses. (C14; γ rays; mice). [Data] 476556
- stem cells**
- Colony-forming capacity of hemopoietic stem cells (CFU-S) in continuously irradiated rats. (C14). 463135
- survival curves**
- Effects of dose rate on hematopoietic stem cells; preliminary results. (C14; Whole-body ^{60}Co γ irradiation of mice). 472944
- CHALCOGENIDES:**
- See also more specific entries as listed in the *INIS Thesaurus*.
- CHALK RIVER NUCLEAR LABS:**
- gaseous wastes**
- Environmental tritium in trees. (C21). 491012
- tritium**
- Environmental tritium in trees. (C21). 491012
- CHANNELING:**
- See also *ELECTRON CHANNELING*; *ION CHANNELING*; *POSITRON CHANNELING*; *PROTON CHANNELING*
- A dynamical statistical approach for description of motion of a fast particle through a crystal. (A13). 474753
- adiabatic approximation**
- Motion of fast charged particles through a crystal in the adiabatic representation. (A13). 485590
- beam emittance**
- On the possibility of particle beam bending or cooling by channeling in monocrystals. (A13). 492645
- dislocations**
- About the dechanneling due to dislocation loops. (A13). 471533
- nuclear reaction yield**
- Possibility of nuclear reaction modulation for high-energy negative particles in single crystals. (A13). 489043
- CHANNELS (REACTOR):**
- See *REACTOR CHANNELS*
- CHARCOAL:**
- adsorption**
- Experimental determination of fission gas adsorption coefficients. (E51). 480845
- Use of charcoal adsorption for the microassay of acetyl-CoA hydrolase. (C31; ^{14}C). 479978
- decomposition**
- Determination of the attrition resistance of granular charcoals. (B15). 479321
- permeability**
- Non-radioactive determination of the penetration of methyl iodide through impregnated charcoals during dosing and purging. (E51). 480852
- CHARGE COLLECTION:**
- van de graaff accelerators**
- Development of the pellet chains in the Electrostatic Accelerator Laboratory of Kyushu University. (E16). 491616
- CHARGE EXCHANGE:**
- electron attachment**
- Charge transfer by a double-scattering mechanism involving target electrons. (A12). 492518
- electron capture**
- Charge transfer: symmetrised non-resonance in fast or slow collisions. (A12). 462107
- ion-atom collisions**
- Electron capture in $\text{N}^{2+}\text{-He}$ and $\text{N}^{2+}\text{-Ne}$ collisions. (A12). 464078
- CHARGE PLUNGER METHOD:**
- (Method for the determination of lifetimes of nuclear levels.)
- corrections**
- Corrections to the zero order description of the recoil distance method for the lifetime measurements of excited nuclear states. (A33). 486214
- CHARGE RADIUS (NUCLEAR):**
- See *NUCLEAR RADII*
- CHARGE-COUPLED DEVICES:**
- (Semiconductor devices arrayed so that the electric charge at the output of one provides the input stimulus to the next.)
- electrical properties**
- Characterization of charge-coupled analog memories for nuclear data acquisition. (E41). 482871
- CHARGE-EXCHANGE REACTIONS:**
- diffraction models**
- Diffraction model for charge-exchange reactions in the range of intermediate energies. (A33). 493168
- helium ions**
- Relative yields of ground-state and excited-state ions of Zn, Cd and Hg in thermal-energy charge-transfer reactions of He^+ ions. (A12). [Data] 471359
- nuclear reaction kinetics**
- Charge-transfer reaction rate coefficients for He^+ and Ne^+ with Ar at 300 K. (A12). 488841
- resonance**
- Search for analogs of isovector resonances excited by the (^3He , t) charge exchange reaction at 80 MeV. (A34). 465238
- CHARGED PARTICLE DETECTION:**
- See also *ALPHA DETECTION*; *BETA DETECTION*; *ELECTRON DETECTION*; *ION DETECTION*; *MUON DETECTION*; *PROTON DETECTION*
- On fluctuations of the free path of particles of an electron-photon shower in an infinite medium. (E41). 485132
- cherenkov counters**
- Evaluation of a microchannel photomultiplier and small-size phototubes for Cerenkov counters. (E41). 466809
- drift chambers**
- Charged particle detector system for high rate experiments. (E41). 466817
- electric charges**
- Sensitive method for detecting stable fractional charges on matter. (E41; Proposed apparatus). 495104
- energy losses**
- Measurement of the ionization loss in the region of relativistic rise for noble and molecular gases. (E41). 485134
- ge semiconductor detectors**
- Detector applications. (E41, E43). 470932
- nitrocellulose**
- Solid state track recorders in nuclear medicine. (C60). 470021
- relativistic range**
- Measurement of the ionization loss in the region of relativistic rise for noble and molecular gases. (E41). 485134
- semiconductor detectors**
- Detector applications. (E41, E43). 470932
- Semiconductor detector fabrication techniques. (E41). 470965
- shower counters**
- Experimental studies of the acoustic signature of proton beams traversing fluid media. (E41, E16, A32). 466804
- sound waves**
- Acoustic radiation by charged atomic particles in liquids: An analysis. (A32, E41). 490029
- telescope counters**
- LET in dose distributions, from spectral measurements of charged particles emitted at the capture of negative pions in biologically significant materials. (C11, C55). 465920
- CHARGED PARTICLES:**
- (In addition to the specific charged particles listed below, see also the list under *ELEMENTARY PARTICLES*.)
- acceleration**
- Charged particle acceleration by longitudinal polaritons in nonlinear dielectric crystals. (A13, E16). 492707
- Optical method for particle acceleration in nonlinear crystals in the field of "rectified light". (E16). 494835
- Optical method of particle acceleration in nonlinear crystals in the field of "rectified" light. (A13). 474867
- accelerators**
- Field configuration transformer. (E14). 470355
- channeling**
- Charged particle acceleration by longitudinal polaritons in nonlinear dielectric crystals. (A13, E16). 492707
- Possibility of nuclear reaction modulation for high-energy negative particles in single crystals. (A13). 489043
- Radiation energy losses of a channeling particle and limiting possibilities of "crystal accelerators". (E16, A13). 494820
- chemical analysis**
- The nuclear microprobe as an analytical tool. (B11). 472332
- crystals**
- Optical method for particle acceleration in nonlinear crystals in the field of "rectified light". (E16). 494835

- diffusion**
Investigation of diffusion kinetics of radiation chemical reactions in proton and multiple-charge ion tracks. (B14). 479233
- electric dipole moments**
Fundamental length hypothesis in a gauge theory context. (A21). 464813
- electromagnetic fields**
Charged particle motion in an electromagnetic field on Kerr background geometry. (A11). [Data] 462090
Electromagnetic and scalar fields around an infinite filament and other Kasner-type naked singularities. (A11). 492467
- electron gas**
Energy loss of charged particles in nonuniform electron gas. (A32, A13). 460262
- energy losses**
Eikonal approximation in x-ray transition radiation theory. (A32). 475694
Energy loss of charged particles in nonuniform electron gas. (A32, A13). 460262
Fluctuations and probable values of ionization energy losses of relativistic particles in thin gas layers. (A32; He, Ne, Ar, Kr, Xe, gas layers). 468243
Radiation energy losses of a channeling particle and limiting possibilities of "crystal accelerators". (E16, A13). 494820
- equations of motion**
Charged particle motion in a medium along an electromagnetic wave. (A11). 477658
Dynamics of streams of matter. (A11). 463885
- general relativity theory**
Charged point particles with magnetic moment in general relativity. (A11). 459655
- gravitational fields**
Gravitational field of radiating charged systems: Petrov type II twist-free metrics. (A11). 474469
On the gravitational mass of a charged particle. (A11). 462081
- laser radiation**
Stimulated multi-photon interaction of charged particles with intense laser radiation in homogeneous media. (A11). 467007
- magnetic fields**
On the trajectory of an ultrarelativistic particle in a uniform magnetic field. (A11). 492397
On the trajectory of an ultrarelativistic particle in a homogeneous magnetic field. (A11). 485285
- monocrystals**
Investigation of dynamic maxima of radiation generated by an ultrarelativistic charge in monocrystals. (A11). 466999
- multiple production**
Features of multiple particle production in nuclear photoemulsions. (A22, A34). 472064
Jets produced in π , π^* , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127
- nucleosynthesis**
Experimental nuclear astrophysics. (A15). 467922
- particle production**
Charged-particle production from neutron-nucleus collisions at 200 GeV/c. (A22). 475662
Inclusive charged-particle production in neutron-nucleus collisions. (A22). 489929
Multiplicity distributions of secondary charged particles in the π^+C interactions at $p=40$ GeV/c. (A21, A33). 464751
A search for heavy stable particles. (A22). 468210
Studies of proton-proton collisions at the CERN ISR with an identified charged hadron of high transverse momentum at 90° . II. (A22). 460223
- particle structure**
A fluid basis for matter. (A11). 488619
- plasma**
Polarization losses of a relativistic charged particle in a plasma in the presence of a strong external high-frequency electric field. (A14). 489092
- polarization**
Methods for measuring of charged particles polarization. (A33, A34). 486294
- potential scattering**
Charged-particle potential scattering in the simultaneous presence of a magnetic and a laser field. (A11). 488599
- relativistic range**
Charged particle motion in a medium along an electromagnetic wave. (A11). 477658
- riccati equation**
Many particle systems with inverse square potential, Riccati equation and completely integrable systems connected with Schrodinger operator. (A11). 488572
- scalar fields**
Electromagnetic and scalar fields around an infinite filament and other Kasner-type naked singularities. (A11). 492467
Simple aspects of sources and fields in media. (A11). 467003
- scattering**
Variational principles for the problem of scattering in the presence of an intensive electromagnetic wave. (A21). 464740
- trajectories**
Charged particle motion in an electromagnetic field on Kerr background geometry. (A11). [Data] 462090
- trapping**
Possibility of nuclear reaction modulation for high-energy negative particles in single crystals. (A13). 489043
- CHARGED-CURRENT INTERACTIONS:**
neutrino-nucleon interactions
A review of neutrino experiments. (A22). 462582
- structure functions**
QCD analysis of charged-current structure functions. (A21). 481375
- CHARGED-PARTICLE ACTIVATION AN:**
(For the process.)
Systematic studies of α -particle elastic scattering and proton induced X-ray emission on Ni-Cr thin film resistors. (B11). 475882
- aluminium**
Determination of impurities in aluminium metals by proton activation. (D22). 491431
- corrosion**
Thin layer activation. Current applications to wear and corrosion measurements and future potential in studies of surface treatment and sputtering. (D22). 476853
- helium 3 beams**
Comparative determination of carbon in silicon by activation with ^3He -ions. (B11). 486489
- in vivo**
Radiation exposure during in vivo analysis of human dental enamel by proton irradiation. (C55, B11). 487647
- proton reactions**
A new method utilizing a target of 'defined thickness' for charged particle activation analysis. (B11). 468665
- wear**
Thin layer activation. Current applications to wear and corrosion measurements and future potential in studies of surface treatment and sputtering. (D22). 476853
- CHARGED-PARTICLE PRECIPITATION:**
See also ELECTRON PRECIPITATION; PROTON PRECIPITATION
Energetic particles and ionization in the nighttime middle and low latitude ionosphere. (B33). 487164
- aurorae**
Diffuse auroral precipitation. (B33). 476476
- energy spectra**
Nighttime ionization by energetic particles at Wallops Island in the altitude region 120 to 200 km. (B33). [Data] 465861
- CHARGED-PARTICLE TRANSPORT:**
See also PROTON TRANSPORT
Simulation of the low-energy electron transport in liquid water; application to microdosimetry and radiobiology. (C11, C55). [Data] 465931
Stochastic instability of a nonlinear oscillator. (A14). 478151
- beam-plasma systems**
Propagation of relativistic electron beams in low pressure gases. (A14). 492777
- computer codes**
Analysis of a nuclear backscattering and reaction data by the method of convolution integrals. (B11, A12, A32; BASS, in FORTRAN for IBM 360). 465261
- electron beams**
Propagation of relativistic electron beams in low pressure gases. (A14). 492777
- electrons**
Dynamics of tokamak discharges dominated by the trapped-electron instability. (A14). 485757
Transport of excess electrons in dense dielectric fluids. Phenomenological interpretation and application to a one-dimensional argon fluid. (A14). 467606
- energy losses**
Interaction of radiation with matter. (A12, A32). 474635
- equilibrium**
The stability of the stationary solutions in the planar magnetic-binary problem. (A15). 489582
- mathematical models**
Small signal solutions of the transport equations. (A13). 471501
- multicharged ions**
Neoclassical transport in plasmas containing ions with multiple charge states. (A14). 485666
- perturbation theory**
Application of the high-order perturbation theory to the problem of fast electron transport through dielectrics in an external electric field. (A32). 464941
- scaling laws**
Scaling law for trapped-ion anomalous diffusion in tokamaks with shear. (A14). 471717
- simulation**
Steady-state transport of high-current beams in a focused channel. (A12). 488818
- three-dimensional calculations**
ACCEPT: three-dimensional electron/photon Monte Carlo transport code using combinatorial geometry. (F50, A32). 492328
- transport theory**
Symmetry properties of the transport coefficients of charged particles in disordered materials. (A13). 492569
- variational methods**
Complementary variational principles on electrical conductivities of a plasma in a uniform magnetic field. (A14). [Data] 489217
- CHARGED-PARTICLE TRANSPORT THE:**
bound state
Wake-bound states: Dispersive and surface effects. (A32). 481456
- computer codes**
TIGERP. (A32, A12; Monte Carlo method). 490026
- energy losses**
Use of the time-dependent variational method for polarization and energy loss in ion-atom collisions. (A32). 464934
- integral equations**
Electron transport in one-dimensional finite systems. (A32, A12). 490024

| | |
|---|--------|
| interactions | |
| Discrete and continuous interactions in charged particle transport theory. (A32). | 490014 |
| armor precession | |
| The Stern-Gerlach quantum-like behaviour of a classical charged particle. (A11). | 488707 |
| magnetic fields | |
| The Stern-Gerlach quantum-like behaviour of a classical charged particle. (A11). | 488707 |
| meetings | |
| Workshop on 2-D transport. (A14). | 474991 |
| CHARGES: | |
| nuclear industry | |
| Act of 3 December 1969 empowering the King to establish fees in implementation of Regulations concerning Protection at Work, Protection against Hazardous Equipment and Ionizing Radiations. (F22, F23). | 463796 |
| radiation protection | |
| Royal Order of 22 April 1974 on Establishment of Fees in Implementation of Regulations on Protection at Work, Protection against Hazardous Equipment and Ionizing Radiations and amending the General Regulations on Protection at Work. (F22). | 463797 |
| CHARGING (REACTOR): | |
| See REACTOR FUELING | |
| CHARGING MACHINES (REACTOR): | |
| See REACTOR CHARGING MACHINES | |
| CHARM PARTICLES: | |
| An experimental summary of the XIII Rencontre de Moriond. (A22). | 489975 |
| branching ratio | |
| Characteristic features of $\phi(4.16)$ and $\phi(4.4')$ in their decays into charmed mesons. (A21). [Data] | 481351 |
| cosmic ray detection | |
| Balloon measurement of new particles. (A15). | 489492 |
| coupling constants | |
| Chiral SU(4) x SU(4) breaking : masses and decay constants of charmed hadrons. (A21). | 481421 |
| decay | |
| Lecture III. Production of charm. (A21; Cross sections, lecture, review). [Data] | 475512 |
| Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). | 471972 |
| decay amplitudes | |
| Charm changing weak decays $1/2^- \rightarrow 3/2^- + \pi^0/\gamma$ in SU(4) and SU(8). (A21). [Data] | 460216 |
| electron-positron interactions | |
| Experimental status of charm in electron-positron annihilations. (A22). | 460240 |
| electroproduction | |
| Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). | 471972 |
| emission | |
| Recent results from the lead - glass - wall experiment. (A22; Review). [Data] | 489916 |
| hadrons | |
| What is charm. (A11). | 467043 |
| leptonic decay | |
| Charm and tau measurements from Delco. (A22). | 468192 |
| Electrons and kaons in charmed particle decays. (A22; Branching ratio, 3.9 to 7.4 GeV/c). [Data] | 486136 |
| lifetime | |
| CERN: PS and SPS performance; proton-antiproton collisions in ISR and SPS; charm particle lifetimes; computer codes for radiation shielding. (E16, A22). | 480414 |
| Charm production by neutrinos and charm particle lifetime. (A22). | 489930 |
| Charmed particle lifetimes. (A21). | 489870 |
| Evidence for prompt neutrinos and interpretation of beam dump experiments. (A22, E16). | 489933 |
| magnetic moments | |
| Quark mass differences, magnetic moments, and radiative decay widths. (A21, A11). | 486101 |
| mass difference | |
| Regge spectra of charmed baryons in dual resonance amplitudes. (A21). | 475586 |
| mass spectra | |
| Lecture II. Charmed particle spectroscopy. (A21). [Data] | 475514 |
| Study of rare muon induced processes. (A22; Structure functions, cross sections). | 493102 |
| multiple production | |
| Neutrino-induced multilepton events arising from the associated production of charmed particles. (A22, A21). | 486143 |
| neutrino-electron interactions | |
| Neutral currents and charm in neutrino interactions. (A22). | 472075 |
| okubo mass formula | |
| Gelfand pattern, charmed hadrons and magnetic moment. (A21). | 468008 |
| pair production | |
| Cosmic ray evidences for short-lived particles. (E41, A15, A21). | 492140 |
| On the Pomeranchuk singularity in the quantum chromodynamics. (A21). | 468019 |
| particle identification | |
| Search for short-lived particles in high-energy neutrino interactions identified using a hybrid emulsion - spark-chamber arrangement. (A22, E41). | 475683 |
| Two-photon production processes at high energy. III. (A21). | 464867 |

| | |
|--|--------|
| particle production | |
| Charm and heavy lepton production by e^+e^- interactions. (A22). | 493114 |
| Charm production by neutrinos and charm particle lifetime. (A22). | 489930 |
| Direct search for charm in accelerator proton collisions. (A22). | 489992 |
| Evidence for prompt neutrinos and interpretation of beam dump experiments. (A22, E16). | 489933 |
| Four quark states and open charm production. (A21). | 483612 |
| Hadronic charm production in QCD. (A21). | 478418 |
| Hadronic production of charmed and other favorite particles. (A21, A11). | 489806 |
| Lecture III. Production of charm. (A21; Cross sections, lecture, review). [Data] | 475512 |
| Prompt neutrino measurement. (A15, A22). | 489616 |
| Radiative and hadronic tetraquark production by neutrinos. (A21). [Data] | 464750 |
| Search for charmed particle production in proton-proton collisions at the CERN-ISR. (A22; 53 GeV cms, e/π ratio). [Data] | 478556 |
| Search for short-lived particles in high-energy neutrino interactions identified using a hybrid emulsion - spark-chamber arrangement. (A22, E41). | 475683 |
| particle properties | |
| Lecture I. Introduction to charm. (A21; Lecture). [Data] | 475513 |
| quark model | |
| Lecture II. Charmed particle spectroscopy. (A21). [Data] | 475514 |
| reviews | |
| Hadron - hadron reactions, high multiplicity. (A22; Review). | 472076 |
| semileptonic decay | |
| Observation of a visible charmed particle decay in neutrino interactions. (A22). [Data] | 489932 |
| Search for charmed particle production in proton-proton collisions at the CERN-ISR. (A22; 53 GeV cms, e/π ratio). [Data] | 478556 |
| Sum rules for the four-body semi-leptonic decays of charmed mesons. (A21). [Data] | 481394 |
| su-4 groups | |
| Gelfand pattern, charmed hadrons and magnetic moment. (A21). | 468008 |
| symmetry breaking | |
| Chiral SU(4) x SU(4) breaking : masses and decay constants of charmed hadrons. (A21). | 481421 |
| weak hadronic decay | |
| Quark mass differences, magnetic moments, and radiative decay widths. (A21, A11). | 486101 |
| weak particle decay | |
| Weak decays. (A21; Review, lecture). | 468147 |
| CHARMED BARYON RESONANCES: | |
| decay | |
| Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). | 471972 |
| decay amplitudes | |
| Weak hadronic and radiative decays of non-strange charmed baryons in SU(3) for the u, d and c quark sector. (A21). | 468090 |
| electroproduction | |
| Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). | 471972 |
| magnetic monopoles | |
| Charmed hadrons, electric quarks and magnetic quarks. (A21). | 481432 |
| mass difference | |
| Quantitative measure of the SU(4) x SU(4) breaking, SU(2) mass splitting of the charmed hadrons, and quark masses. (A21). | 489728 |
| mass formulae | |
| On relations between hadron masses in the SU(4) symmetry. (A21; A_7 , S_7 , T_7 , $\Xi_{\text{sub}}(c)$, $X_{\text{sub}}(s)$, $\Lambda_{\text{sub}}(c)$ -baryons; D,F-mesons). | 493084 |
| particle production | |
| Brookhaven: charmed baryon. (A22). | 478515 |
| Charmed-baryon production in electron-positron annihilation. (A21). | 475612 |
| Comment on neutrino production of ground-state charmed baryons. (A21). | 489727 |
| Problem of charmed baryon production rate by neutrino. (A21). | 475511 |
| Recent results from the FNAL 15 foot bubble chamber. (A22). | 460239 |
| particle properties | |
| Lecture II. Charmed particle spectroscopy. (A21). [Data] | 475514 |
| quark model | |
| Lecture II. Charmed particle spectroscopy. (A21). [Data] | 475514 |
| semileptonic decay | |
| Search for semileptonic decays of photoproduced charmed mesons. (A22; 100 to 300 GeV). [Data] | 478539 |
| Semileptonic decays of charmed particles. (A21). | 489793 |
| wave functions | |
| Charmed hadrons, electric quarks and magnetic quarks. (A21). | 481432 |
| weak hadronic decay | |
| Weak hadronic and radiative decays of non-strange charmed baryons in SU(3) for the u, d and c quark sector. (A21). | 468090 |
| weak particle decay | |
| Two body decays of charmed particles. (A21). | 489829 |
| Weak decays of charmed baryons. (A21). | 486068 |
| CHARMED MESON RESONANCES: | |
| See also D PLUS RESONANCES; D RESONANCES; D ZERO RESONANCES; D-1865 RESONANCES; D-2007 RESONANCES; F* RESONANCES; F-2030 RESONANCES | |

- An experimental summary of the XIII Rencontre de Moriond. (A22). 489975
- decay
Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). 471972
- electroproduction
Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). 471972
- hadronic particle decay
Charmed-meson decay in the massive-quark model. II. (A21). 489867
- leptonic decay
Charmed quark. (A21; four-flavor quark model, GIM charm model). 486046
- Current investigations in electron-positron annihilation. (A21). 478408
- mass
Determination of the chiral $SU(4) \times SU(4)$ breaking parameters. (A21). 468036
- mass formulae
Comments on the atomic physics of charmonium. (A21). 464784
- Determination of the chiral- $SU(4) \times SU(4)$ -breaking parameters. (A21, A11). 489761
- On relations between hadron masses in the $SU(4)$ symmetry. (A21; A-, S-, T-, Ξ sub(c)-, Xsub(s)-, Asub(c)-baryons; D,F-mesons). 493084
- mass spectra
Determination of the chiral $SU(4) \times SU(4)$ breaking parameters. (A21). 468036
- nuclear molecules
Dynamics of charm molecules. (A21). 475577
- particle production
Experimental review of the physics at the e^+e^- collision rings beyond 3 GeV. (A22; 25 ref.). 464900
- Recent results from the FNAL 15 foot bubble chamber. (A22). 460239
- Study of charm production through $e\mu$ and eK correlations. (A21). [Data] 464769
- particle properties
Lecture II. Charmed particle spectroscopy. (A21). [Data] 475514
- Lecture IV. Experimental status of charm. (A21; Lectures, review). [Data] 475515
- quark model
Lecture II. Charmed particle spectroscopy. (A21). [Data] 475514
- reviews
Prospects for hadronic production of charmed particles at the AGS. (A22). 464895
- semileptonic decay
Charmed quark. (A21; four-flavor quark model, GIM charm model). 486046
- Semileptonic decays of charmed particles. (A21). 489793
- Study of charm production through $e\mu$ and eK correlations. (A21). [Data] 464769
- spectra
Charmed meson spectra. (A21). 478486
- weak hadronic decay
Charmed quark. (A21; four-flavor quark model, GIM charm model). 486046
- Nonleptonic weak decays in two-dimensional quantum chromodynamics. (A21, A11). [Data] 464834
- weak particle decay
Two body decays of charmed particles. (A21). 489829
- CHARMONIUM:**
(A hypothetical bound state of charmed quarks, analogous to positronium, muonium, etc.)
On the decay of Ψ mesons in charmonium models. (A21). 460163
- Vacuum-polarization-corrected long-distance static quark-antiquark potential. (A11). 474501
- annihilation
Testing Q^2 duality in charmonium potential models. (A21). 464810
- decay
Charm and Beyond. (A21). 468015
- dispersion relations
Test of self-consistency of the dispersion theory of the charmonium in the $\Psi \rightarrow 3\gamma$ decay. (A21). 493089
- energy-level transitions
Comments on the atomic physics of charmonium. (A21). 464784
- excited states
Found states of a power-law confinement potential. (A21). [Data] 475538
- hyperfine structure
Non-perturbative treatment of hyperfine interaction in charmonium. (A21). 486047
- mass spectra
Charm and Beyond. (A21). 468015
- mass spectroscopy
Found states of a power-law confinement potential. (A21). [Data] 475538
- p states
Spin forces in charmonium spectroscopy. (A21). [Data] 464785
- particle decay
Decays of 3D_1 -charmonium into e^+e^- and relativistic effects of constituent quarks. (A21). 471967
- particle production
Quark-gluon plasma and production of leptons, photons and pions in hadron collisions. (A21; e^+ , μ^+ , tau/ Ψ 1, chi, Ψ 1'). 493082
- quadrupole moments
Remarks on the orbital mixing in muonium and charmonium. (A21). 478490
- s states
Comments on the atomic physics of charmonium. (A21). 464784
- tensor forces
Spin forces in charmonium spectroscopy. (A21). [Data] 464785
- CHARPAK CHAMBERS:**
See *MULTIWIRE PROPORTIONAL CHAMBER*
- CHARPY TEST:**
ductile-brittle transitions
New criteria for charpy impact testing of ferritic steels. (E17). 470449
- simulation
Computer simulation of the Charpy V-notch toughness test. (B22). [Data] 462894
- CHARTS:**
See *DIAGRAMS*
- CHEESE:**
radurization
Feasibility of extending storage life of sheep-milk cheese using ionizing radiation. (C43). 484622
- CHELATES:**
electric conductivity
Induced electrical conductivity of gamma-irradiated 8-hydroxyquinoline metal complexes. (B14). 476176
- fluorescence
Excited-state kinetics for Nd(thd)₃ and Tb(thd)₃ chelate vapors and prospects as fusion laser media. (A14). [Data] 464359
- radiolysis
Effect of gamma radiation on the IR spectra of some divalent and trivalent S-hydroxy-quinoline complexes. (B14, E41). 462778
- High dose radiation effects on a Co(II)-Co(III) chelate, in solid phase. (B14). 490472
- solvent extraction
Complexing in extraction. (B11; halide complexes of Mo, Nb, Cd, Sc, Te, Zr, rare earths). 493546
- CHELATING AGENTS:**
See also *ACETYLACETONE*; *DEDTC*; *DEFEROXAMINE*; *DTPA*; *EDTA*; *HEIDA*; *NTA*; *PENICILLAMINE*; *TOA*
- efficiency
Investigations on the distribution and decorporation of inorganic mercury. (C21). 476619
- extraction chromatography
Use of chelating agents as immovable phase in extraction chromatography. (D11). 473548
- mercury 203
Investigations on the distribution and decorporation of inorganic mercury. (C21). 476619
- plutonium 239
Removal of ^{239}Pu , internally deposited in mice, by means of diethylenetriaminepenta(methylenephosphonates). (C21). 463246
- CHEM. EFF. OF NUCL. TRANSFORM.:**
See *HOT ATOM CHEMISTRY*
- CHEMICAL ACTIVATION:**
praseodymium ions
Luminescence of Pr^{3+} -activated thorium oxide. (A12). 459718
- CHEMICAL ANALYSIS:**
See also *ACTIVATION ANALYSIS*; *CHARGED-PARTICLE ACTIVATION AN*; *DELAYED NEUTRON ANALYSIS*; *ELECTRON MICROPROBE ANALYSIS*; *ION MICROPROBE ANALYSIS*; *ION SCATTERING ANALYSIS*; *MULTI-ELEMENT ANALYSIS*; *NEUTRON ACTIVATION ANALYSIS*; *NONDESTRUCTIVE ANALYSIS*; *NUCLEAR REACTION ANALYSIS*; *PHOTON ACTIVATION ANALYSIS*; *QUALITATIVE CHEMICAL ANALYSIS*; *QUANTITATIVE CHEMICAL ANALYSIS*; *RADIATION ABSORPTION ANALYSIS*; *RADIATION SCATTERING ANALYSIS*; *RADIO-RELEASE ANALYSIS*; *RADIOMETRIC ANALYSIS*; *THERMAL GRAVIMETRIC ANALYSIS*; *X-RAY EMISSION ANALYSIS*; *X-RAY FLUORESCENCE ANALYSIS*
- automation
Application of an inductively coupled plasma/direct reading polychromator to the multielement analysis of stream sediment extracts. (B31, B11). 472823
- Automating the Analytical Laboratories Section, Lewis Research Center, National Aeronautics and Space Administration: a feasibility study. (B11). 478793
- compton effect
Basic aspects on the use of elastic and inelastic scattered gamma radiation for the determination of binary systems with effective atomic numbers of less than 10. (B11). [Data] 462676
- electron spectrometers
Microcomputer automation of the sample probe of an ESCA spectrometer. (E41). 485060
- electron spectroscopy
ESCA investigations of ion beam effects on surfaces. (A13). 459829
- inelastic scattering
Basic aspects on the use of elastic and inelastic scattered gamma radiation for the determination of binary systems with effective atomic numbers of less than 10. (B11). [Data] 462676
- information
Growth of a journal reflects trends in the literature of nuclear analytical methods. (F32). 485221
- information needs
Department of Energy: some aspects of basic research in the chemical sciences. (B16, E52, B11). 486820
- laser isotope separation
Laser chemical analysis of chemical reactions in the gas phase. (B12). 460544
- quality assurance
Environmental radioactivity laboratory intercomparison studies program, 1978-1979. Interim report. (B11). 478808
- Laboratory quality assurance. (B11). 460386

- quality control**
Computer controlled quality of analytical measurements. (B11, B16). 486495
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). [Data] 475911
Multilaboratory analytical quality control for the hydrogeochemical and stream sediment reconnaissance. (B31). 460841
Multilaboratory analytical quality control for the hydrogeochemical and stream sediment reconnaissance. Quality control report for January 1979. (B31). 460842
- spatial distribution**
The nuclear microprobe as an analytical tool. (B11). 472332
- x-ray emission analysis**
The nuclear microprobe as an analytical tool. (B11). 472332
- CHEMICAL BONDS:**
- hydrogen**
A comparison of type I and type II photosensitization and protection and the various roles of hydrogen bonding to substrates, photosensitizers and intermediates. (B14, C11). 476187
A comparison of type I and type II photosensitization and protection and the various roles of hydrogen bonding to substrates, photosensitizers and intermediates. (B14, C11). 476187
- positronium**
Chemical structure studies with positrons and mesons. (A13, A12). 471494
- potential energy**
Nuclear radiation as a probe of chemical bonding. The current interplay between theory and experiment. (A13, A12). 471509
- CHEMICAL COATING:**
See also CHEMICAL VAPOR DEPOSITION; ELECTROCHEMICAL COATING
- CHEMICAL DECLADDING:**
- hydridation**
Method of recovery of U, Pu and their compounds. (B16). 484126
- CHEMICAL DOSEMETERS:**
Radiation chemistry of the ferrous sulfate-benzoic acid-xenol orange system. (B14; γ rays). 468948
Study on intense relativistic electron beam x-radiation on the base of development of pulse dosimetry technique. (E16, E41). 491585
- coumarin**
The aqueous coumarin system as a low range chemical dosimeter. (E41). [Data] 470820
Fast neutron response of coumarin in water and heavy water. (B14). 479208
- low dose irradiation**
The aqueous coumarin system as a low range chemical dosimeter. (E41). [Data] 470820
- radiation doses**
Reply to comments on use of FBX dosimeter for absorbed doses of less than 1000 rad. (E41). [Data] 463727
Use of FBX dosimeter for absorbed doses of less than 1000 rad. (E41). 463718
- reactors**
Radiation chemistry experiments in a nuclear reactor. (E37). 480740
- CHEMICAL EFFLUENTS:**
- asbestos**
Asbestos in cooling-tower waters. Final report. (C52, E22; Source, hazards, and recommendations at nuclear power plants). 487521
- environment**
SEDONE: a computer code for simulating tidal-transient, one-dimensional hydrodynamic conditions and three-layer, variable-size sediment concentrations in controlled rivers and estuaries. (B32, C52; Code has application in determining hydrodynamic, thermal, chemical, radiological, and biological impacts of thermal power plants). 469539
- environmental impacts**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- health hazards**
Energy production and human health. (C21). 469735
- monitoring**
Environmental monitoring at Ames Laboratory: Calendar Year 1978. (B33, B32, C52). [Data] 487165
Knolls Atomic Power Laboratory annual environmental monitoring report. Calendar year 1978. (B33, C22, C52, C21). [Data] 487151
- CHEMICAL EXPLOSIONS:**
- rayleigh waves**
Design and execution of the Rayleigh wave experimental program at Yucca Lake, Nevada. (E14). 476925
- reactor safety**
Gas explosions and their effects upon reactor components relevant to plant safety. (C52). 463381
- uses**
Single-charge craters excavated during subsurface high-explosive experiments at Big Black Test Site, Mississippi. (E14). 466509
- CHEMICAL EXPLOSIVES:**
- chemical preparation**
Nitroaliphatic difluoromals. (E14; Patent). 470353
- density**
Density estimations for explosives and related compounds using the group additivity approach. (B12). 486669
- nuclear explosions**
Use of canines for explosives detection in the personnel access control function at a nuclear facility. (F41). 462043
- shock waves**
Detonation velocity transient of Composition B-3 and PBX-9404. (E14). 487858
- CHEMICAL INDUSTRY:**
- tracer techniques**
Application of radioactive tracers to processes on a large scale. (D24). 487813
- CHEMICAL LASERS:**
(The excitation process involves the making or breaking of a chemical bond.)
- nitrogen hydrides**
High power 12.08 μm NH_3 laser. (A12). 471366
- research programs**
HF-laser program. (A14). 464240
Investigation of concept of efficient short wavelength laser. Quarterly progress report, 1 August 1978 - 31 October 1978. (A14). 464443
New-laser research and development. (A14). 464243
- specifications**
Hydrogen-fluoride laser conceptual design for laser fusion. (A14). 462299
Versatile, isotopically specific hydrogen halide TEA pin laser. (B12). 490355
- CHEMICAL MUTAGENS:**
See MUTAGENS
- CHEMICAL PREPARATION:**
- chemical radiation effects**
Development and creation vapor-phase radiation chemical method for organic chlorosilanes preparation. (B14). 479302
Radiation chemical synthesis of some organic sulfur compounds. (B14). 479143
- labelled compounds**
Chemical and biological properties of bleomycin labelled with ^{57}Co . (B13, C21). 486717
Relationship of molecular structure to the in vivo-distribution of carbon-11-labeled compounds. Pt. 5. (B13, C21). 493784
- radiopharmaceuticals**
sup(99m)Tc-unithiol complex, a new radiopharmaceutical for kidney scintigraphy. Pt. 3. (B13, C62). 468906
- CHEMICAL PROPERTIES:**
- comparative evaluations**
Comparison between the fluorides and oxyfluorides of ruthenium and plutonium, by thermochromatography. (B12). [Data] 493617
- CHEMICAL RADIATION DETECTORS:**
- coumarin**
Fast neutron response of coumarin in water and heavy water. (B14). 479208
- radiation doses**
Reply to comments on use of FBX dosimeter for absorbed doses of less than 1000 rad. (E41). [Data] 463727
Use of FBX dosimeter for absorbed doses of less than 1000 rad. (E41). 463718
- tin compounds**
Ionizing radiation recording material. (E41; insensitive to light). 474042
Recording material sensitive to ionizing radiations. (E41; insensitive to light). 474041
- CHEMICAL RADIATION EFFECTS:**
See also LYOLUMINESCENCE; RADIOLYSIS
- albumins**
Oxygen binding to protein molecules in gamma ray exposure as a function of gas phase oxygen concentration. (C11). 465904
- annealing**
Annealing of cobalt(II) in gamma-irradiated hexamminecobalt(III) nitrate. (B14). 465474
A comparative study of annealing of different damage species in gamma-irradiated sodium nitrate. (B14). [Data] 465475
- cellulose**
Some aspects of the mechanism of cellulose radiolysis. (B14). 472503
- chemical reaction kinetics**
Liberation of I_2 and aquoluminescence from γ -irradiated alkali halides during dissolution in KI solution. (B14). [Data] 465453
Transfer of energy from irradiated crystals to redox reactions: iodide/bromate and nitrite/bromate systems. (B14). 465452
- chromatin**
Changes in the circular dichroic spectrum of calf thymus solubilized chromatin caused by ultraviolet irradiation. (C11). 476530
- cobalt complexes**
Annealing of cobalt(II) in gamma-irradiated hexamminecobalt(III) nitrate. (B14). 465474
- crystals**
Transfer of energy from irradiated crystals to redox reactions: iodide/bromate and nitrite/bromate systems. (B14). 465452
- dna**
Excision repair enzymes after gamma-ray damage to micrococcus luteus DNA. (C12). 465943
- drugs**
The influence of radiation treatment on drugs and drug additives. Pt. 2. (C45, B14). 466265
- electron spin resonance**
Study on nature of free radical states in gamma-irradiated LL tumor cell cultures. (C11). 463034
- glass**
Temperature dependent photobleaching of trapped electrons in γ -irradiated ethylene glycol-water glass. (B14). [Data] 465473
- graft polymers**
Investigation of some synthetic fibres modified by radiation-induced grafting. (B14). 465480
- luminescence**
Liberation of I_2 and aquoluminescence from γ -irradiated alkali halides during dissolution in KI solution. (B14). [Data] 465453

- Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- polymerization**
- Device for grafting high-polymer articles preirradiated with ionizing beams. (D23). 461485
- Manufacture of plastic parts by radiation molding. (D23). 461486
- pressure dependence**
- Oxygen binding to protein molecules in gamma ray exposure as a function of gas phase oxygen concentration. (C11). 465904
- pulsed irradiation**
- Computer analysis of the decay kinetics of solvated electrons in liquid ethanol at low temperature. (B14). [Data] 479146
- radiosensitizers**
- Role of DNA damage in biophysical mechanisms of radiosensitization by hyperthermia. (C11). 463063
- radurization**
- Studies on wholesomeness of irradiated foods. Pt.1. (C43). 466259
- sodium nitrates**
- A comparative study of annealing of different damage species in gamma-irradiated sodium nitrate. (B14). [Data] 465475
- trapped electrons**
- Temperature dependent photobleaching of trapped electrons in γ -irradiated ethylene glycol-water glass. (B14). [Data] 465473
- CHEMICAL REACTION KINETICS:**
- Evaluations of the mean values and standard errors of rate constants and their temperature coefficients. (B12). 460453
- Quantitative comparison between detailed (state selected) relative rate data and averaged (thermal) absolute rate data for complex forming reactions. (B12). 462735
- beam dynamics**
- Crossed beam studies related to gas kinetics. (B12). 460448
- data**
- Evaluation and compilation of chemical kinetic data. (B12). 462698
- isotopic exchange**
- Contribution to the study of isotopic exchange of hydrogen in purine derivatives. (B12). 462747
- laser radiation**
- Infrared laser enhancement of chemical reactions via collision induced absorption. (B12). 479012
- mathematical models**
- Accuracy of trajectory calculations and transition state theory for thermal rate constants of atom transfer reactions. (B12). 460537
- Accuracy of tunneling corrections to transition state theory for thermal rate constants of atom transfer reactions. (B13). 460550
- Numerical experiments in identification of parameters in differential and partial differential equations. (F51). 485238
- measuring methods**
- Kinetic measurements using flow tubes. (B12, E42). 460473
- Rate constant measurements at constant temperature by the flash photolysis-resonance fluorescence technique and recombination-dissociation theory for NO_2 and NOCl . (B12). 462723
- predissociation**
- Quasiclassical trajectory study of vibrational predissociation of van der Waals molecules: Collinear $\text{HexxxL}_2(\text{B}^1\Pi)$. (A12). 488928
- projection operators**
- Dynamical correlations in nonlinear chemical reactions. (A11). 492487
- reviews**
- Kinetic measurements using flow tubes. (B12, E42). 460473
- temperature dependence**
- Some aspects of the evaluation of kinetic data. (B12). 460439
- CHEMICAL REACTION YIELD:**
- radicals**
- γ irradiation of aqueous solutions of human hemoglobin in atmospheres of air and argon. (C11, B14). 490925
- CHEMICAL REACTIONS:**
- See also more specific entries as listed in the *INIS Thesaurus*.
- chemical analysis**
- Laser chemical analysis of chemical reactions in the gas phase. (B12). 460544
- chemical radiation effects**
- Investigation of diffusion kinetics of radiation chemical reactions in proton and multiple-charge ion tracks. (B14). 479233
- sodium**
- Investigation of reaction equilibrium in reactor materials by EMF methods. (B12). 465415
- CHEMICAL SHIFT:**
- branching ratio**
- Chemical effects on the $K_{\text{sub}}(\text{B})/K_{\text{sub}}(\alpha)$ intensity ratios of the daughter atoms formed by the EC decay of ^{51}Cr and ^{54}Mn . (A34). [Data] 465224
- k capture**
- Chemical effects on the $K_{\text{sub}}(\text{B})/K_{\text{sub}}(\alpha)$ intensity ratios of the daughter atoms formed by the EC decay of ^{51}Cr and ^{54}Mn . (A34). [Data] 465224
- CHEMICAL SHIMMING:**
- See *FLUID POISON CONTROL*
- CHEMICAL STATE:**
- iron base alloys**
- Characterization of iron in josephinite by Fe-57 Moessbauer spectroscopy. (A34). 465185
- CHEMICAL VAPOR DEPOSITION:**
- Study of superconducting A15 compounds of the Nb-Ge-Si system prepared by CVD. (B21). 472610
- type-II superconductors**
- Superconductivity of A15 compounds in the system Nb-Ge-Sn synthesized by chemical vapor deposition. (B22, A17). 472635
- CHEMICALS:**
- See *PIGMENTS*
- CHEMILUMINESCENCE:**
- colliding beams**
- Crossed-beam chemiluminescence. I. (A12). 483163
- electron exchange**
- Chemically initiated electron exchange luminescence. (A12). 485521
- inhibition**
- Chemiluminescence from non-bioluminescent bacteria: the importance of redox state and oxygen. (C12, A12). 487190
- ion-molecule collisions**
- Light emission in collisions of C^+ ions with N_2 molecules. (A12). 471353
- pyrogallol**
- Peroxidase mediated chemiluminescence with phenol derivatives. (C11). 487179
- resorcinol**
- Peroxidase mediated chemiluminescence with phenol derivatives. (C11). 487179
- CHEMISORPTION:**
- (Dissolution or adsorption followed by chemical reaction.)
- auger electron spectroscopy**
- Oxygen chemisorption on Bi (0001): LEED/Auger/loss study. (B22). 476337
- carbon oxides**
- Coverage dependent photoelectron spectroscopy of CO chemisorption on Cu (111): evidence for two adsorption sites. (B12). 481670
- cellulose**
- Pd(II) and ^{198}Au (III) sorption on 4-(benzylcellulose)phenylthiocarbamoylamine. (B12). [Data] 462746
- chitin**
- Removing radionuclides from water. (E51). 482909
- electron loss**
- Oxygen chemisorption on Bi (0001): LEED/Auger/loss study. (B22). 476337
- mathematical models**
- Kinetic models for irreversible processes on a lattice. (A17, B22). 486001
- plutonium**
- Removing radionuclides from water. (E51). 482909
- radioisotopes**
- Sorption and separation of radionuclides from aqueous solutions on hydrated oxides and some in soluble salts. (B13). 481705
- sulfur oxides**
- Gas absorption characteristics with a spray sprinkling system. (E32). 463629
- zeolites**
- Fixation mechanism between zeolite and some radioactive elements. (B16, B13). [Data] 462818
- CHEMISTRY:**
- See also *BIOCHEMISTRY; COSMOCHEMISTRY; HOT ATOM CHEMISTRY; PHOTOCHEMISTRY; RADIATION CHEMISTRY; RADIOCHEMISTRY; WATER CHEMISTRY*
- computer calculations**
- Planning Committee for a National Resource for Computation in Chemistry. Final report, October 1, 1974 - June 30, 1977. (B10). 460367
- information needs**
- National needs for critically evaluated physical and chemical data. (the 'codan' report). Final report. (F30). 488437
- labelled compounds**
- Nomenclature of inorganic chemistry. (B12, B13). 493593
- radon**
- Principles of radon emanometry. (B31). 469498
- research programs**
- Summaries of FY 1978 research in the chemical sciences. (B10). 472315
- CHEMONUCLEAR REACTORS:**
- gamma radiation**
- Study on the yield of uranium radiation circuit at a stationary power level. (E37). 488211
- CHEMOTHERAPY:**
- Preventive central nervous system irradiation in children with acute nonlymphocytic leukemia. (C15; Complications of γ radiation). 469690
- carcinomas**
- Combination chemotherapy including high dose methotrexate and radiotherapy, in the treatment of small cell carcinoma of the lung. (C63). 480276
- chelating agents**
- Synergistic chelation therapy or mixed ligand complexes for plutonium and cadmium poisoning; and reply. (C21). 473070
- neoplasms**
- ICRF-159 enhancement of radiation response in combined modality therapies. (C63, C14). 494610
- ICRF-159 enhancement of radiation response in combined modality therapies. (C63, C14). 494611
- radiosensitivity**
- Delayed complications following combination of radiation and chemotherapy. (C15, C63; Editorial, no data on effects given). 472997
- Multiple carcinomas following therapy for Hodgkin disease. (C15, C63; Sensitizing effects of subsequent chemotherapy). 466171
- Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
- Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- radiotherapy**
- Combination therapy of local tumour recurrence in patients with breast cancer. (C63). 482487

- side effects**
- Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ⁶⁰Co-teletherapy). 472998
- Esophagitis induced by combined radiation and adriamycin. (C15, C63; Mediastinum irradiated to doses between 500 and 2500 rad.). 472994
- Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
- Hodgkin's disease terminating in oat cell carcinoma of the lung. (C15, C63; Carcinogenic side effects of chemotherapy and radiotherapy). 487240
- Long term follow-up of combination chemotherapy-radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
- Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
- Offspring of patients treated for cancer in childhood. (C15). 487260
- Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- Therapy-related leukemia. A panmyelosis. (C15, C63, C64). 487249
- tumor cells**
- Combined radiochemotherapy. (C63). 482470
- CHERENKOV COUNTERS:**
- On one construction of the Cherenkov counter with solid radiator. (E41). 466836
- calibration**
- Lead-glass wall addition to the SPEAR Mark I magnetic detector. (E41, E16; DOE). 466781
- Multi-channel system of the stable light mark. (E41). 480790
- cern ps synchrotron**
- Optimization of an aerogel cerenkov detector having a mirror light collection system. (A22, E41). [Data] 481440
- cosmic ray detection**
- An instrument to measure the spectrum of cosmic ray iron and other nuclei to above 100 GeV/nucleon. (E41, A15). 480744
- data processing**
- Data handling for the wide-angle hall jet experiment. (E41, E16). 466766
- gain**
- Gain stabilization of scintillation and Cerenkov spectrometers at high counting rates. (E41). 492124
- image tubes**
- Preliminary results on tests of a Cerenkov ring imaging device employing a photoionizing PWC. (E16, E41). 494765
- light emitting diodes**
- An LED monitoring system for a large lead-glass counter array. (E41). 474094
- particle identification**
- Appendix D-I: comparison of techniques as applied to specific experiments. (E16). 494727
- performance**
- CEDAR (Cerenkov differential counters with achromatic ring focus) project. (E41, E16; 15 to 340 GeV/c). 466760
- Threshold Cherenkov counters for use with the 20 GeV/c spectrometer. (E41, A22). 470816
- performance testing**
- Preliminary results on tests of a Cerenkov ring imaging device employing a photoionizing PWC. (E16, E41). 466531
- photomultipliers**
- Increased photoelectron collection efficiency of a photomultiplier in an aerogel Cherenkov counter. (E41). 477334
- phototubes**
- Evaluation of a microchannel photomultiplier and small-size phototubes for Cerenkov counters. (E41). 466809
- planning**
- Detector development summary. (E41). 466818
- reviews**
- Cerenkov counters at ISABELLE. (E16, E41). 476959
- sensitivity**
- Particle detection and identification through Cerenkov effect in silica aerogels. (E41). 474063
- specifications**
- A large yield threshold Cerenkov counter. (E41). 485043
- Liquid hydrogen Cerenkov counter. (E41). 466806
- CHERENKOV DETECTORS:**
- See **CHERENKOV COUNTERS**
- CHERENKOV RADIATION:**
- Hybrid radiation and its properties. IV. (A32). 472133
- On directivity of Vavilov-Cherenkov radiation. (A32). 464935
- biological radiation effects**
- Visual phenomena induced by relativistic carbon ions with and without Cerenkov radiation. (C15). 479915
- interference**
- Hybrid radiation and its properties. 4. (A11). 485381
- Interference effects in transition radiation near the threshold of the Vavilov-Cherenkov radiation. 5. (A11). 471308
- mach number**
- Simple aspects of sources and fields in media. (A11). 467003
- plates**
- Radiation from electrons of a medium in the passage of a fast particle through the medium. (A32). 478585
- quantity ratio**
- Analytical application of Cherenkov radiation Pt. 1. (D22). [Data] 480314
- radiation detection**
- Detection of ³²P and ⁵⁴Mn in dual labelled samples. (B11). 475897
- self-absorption**
- Pulse radiolysis of frozen polycrystalline systems. (B14). 472515
- CHESAPEAKE BAY:**
- ecology**
- Chesapeake Bay baseline data acquisition, toxics in the Chesapeake Bay. Final preliminary report, 1946-78. (B32, C52). 494222
- Chesapeake Bay baseline data acquisition, appendix IX. Wetlands alteration. Final report, 1973-78. (C22, C52, F30). 494347
- pollution**
- Aquatic impact. (C52, F23). 494392
- water pollution**
- Chesapeake Bay baseline data acquisition, toxics in the Chesapeake Bay. Final preliminary report, 1946-78. (B32, C52). 494222
- CHEST:**
- cat scanning**
- Computed tomography of the abdomen and thorax. Chapter 3. (C61). 487665
- Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
- images**
- The recognition of lesions on chest radiographs. (C61). 482287
- injuries**
- Lung changes resulted from traumas and shock (according to scintiscanning data). (C62). 482347
- scintiscanning**
- Chest nuclear medicine. (C62). 480269
- tissue-equivalent materials**
- Attenuation of 13-20 keV photons in tissue substitutes and their validity for calibration purposes in the assessment of plutonium in lungs. (C55). 461360
- wounds**
- The recognition of lesions on chest radiographs. (C61). 482287
- x-ray radiography**
- Gastric tumors on chest radiographs. (C61). 482318
- CHEW-LOW METHOD:**
- Analytical calculation of an invariant curve for Chew-Low equations. (A21, A33). 493060
- CHI RESONANCES:**
- See also **CHI-3410 RESONANCES**; **CHI-3455 RESONANCES**; **CHI-3500 RESONANCES**; **CHI-3550 RESONANCES**
- CHI-3410 RESONANCES:**
- particle production**
- Some first results from the Mark II at SPEAR. (A22; Branching ratio, cross sections). 493093
- CHI-3455 RESONANCES:**
- particle production**
- Some first results from the Mark II at SPEAR. (A22; Branching ratio, cross sections). 493093
- CHI-3500 RESONANCES:**
- gamma decay**
- Particles produced in association with PSI(3098). (A22; 217 GeV/c, cross sections). [Data] 475645
- pair production**
- Production of photons associated with the psi by 217-GeV/cπ mesons. (A22). 475677
- particle decay**
- Study of chi production properties at the CERN Intersecting Storage Rings. (A22). 478551
- particle production**
- Production of photons associated with the psi by 217-GeV/cπ mesons. (A22). 475677
- Some first results from the Mark II at SPEAR. (A22; Branching ratio, cross sections). 493093
- CHI-3550 RESONANCES:**
- particle production**
- Some first results from the Mark II at SPEAR. (A22; Branching ratio, cross sections). 493093
- CHICKENS:**
- glycine**
- Studies on the non-essential amino acids in fowl nutrition. (6). (C44). 473152
- lymphatic system**
- The role of the thymus for maturation of transferred bursa cells into immuno-competent B cells in chickens treated with cyclophosphamide. (C14). [Data] 463133
- proline**
- Studies on the non-essential amino acids in fowl nutrition. (6). (C44). 473152
- CHILDREN:**
- See also **INFANTS**
- biomedical radiography**
- Experience in application of new intensifying screens to decrease radiation burden in biomedical radiography of children. (C54, C61). 494460
- delayed radiation effects**
- Childhood leukemias associated with fallout from nuclear testing. (C15, B33, E14; Incidence in Utah children under 15 years old between 1951 and 1958). 473010
- hereditary diseases**
- Roentgeno-radioisotope characteristics of bone changes in some hereditary diseases of children. (C62). 482343
- hormones**
- Methandrostenolone and testosterone RIA. (C62). 494519
- leukemia**
- Radiation treatment of malignant tumours in childhood. (C63). 494603

- lymphosarcomas**
Radiation treatment of malignant tumours in childhood. (C63). 494603
- radiology**
Radiation exposition of children and the possibilities of its reduction. (C55). [Data] 494494
- rhabdomyosarcomas**
Embryonal rhabdomyosarcoma of the vagina in children. (C63). 491366
- Radiation treatment of malignant tumours in childhood. (C63). 494603
- CHILE:**
- andes**
Rubidium-strontium geochronology of a transect of the Chilean Andes between latitudes 45° and 46° S. (B31). 460849
- hydrology**
Isotope hydrology in northern Chile. (B32). [Data] 462989
- CHIMERAS:**
See also **RADIATION CHIMERAS**
Drug-induced chimerism and prevention of graft-versus-host disease in lethally irradiated mice transplanted with rat bone marrow. (C14; Gamma radiation). 479851
- CHINA:**
- nuclear explosions**
Determination of fallout nuclides by the 19th Chinese nuclear explosion test. (B33). 481973
- radiation protection**
Health physics in the People's Republic of China. (C50). 476667
- synchrotrons**
The proton synchrotron for China. (E16). 480418
- CHINA CLAY:**
See **KAOLIN**
- CHINESE HAMSTER:**
See **HAMSTERS**
- CHINON-1 REACTOR:**
- reactor decommissioning**
The decommissioning of Chinon I. (E33). 463648
- CHINONE:**
See **BENZOQUINONES**
- CHIPMUNKS:**
- dose equivalents**
Radiation dosimetry of small mammals inhabiting a liquid radioactive waste disposal area. (C14, C21, C22, E52, C52; Idaho National Engineering Laboratory). [Data] 490955
- radionuclide kinetics**
Radiation dosimetry of small mammals inhabiting a liquid radioactive waste disposal area. (C14, C21, C22, E52, C52; Idaho National Engineering Laboratory). [Data] 490955
- CHIRAL SYMMETRY:**
- particle interactions**
Spin 3/2 fields and supergravity theories. (A11, A21). 463883
- su-2 groups**
Exact finite-energy solutions in non-linear SU(2) X SU(2) and SU(2) X SU(1,1) chiral theories. (A11). 477614
- Low-energy π N- and NN-scattering in chiral dynamics with the use of superpropagators. (A21). 493070
- On the existence of singular solutions in chiral theories. (A11). 483020
- su-4 groups**
Quantitative measure of the SU(4) x SU(4) breaking, SU(2) mass splitting of the charmed hadrons, and quark masses. (A21). 489728
- symmetry breaking**
Chiral symmetry breaking in quark confining theories. (A21). 489748
- A comment on spontaneous breaking of chiral symmetry. (A21). 481407
- Determination of the chiral-SU(4) x SU(4) -breaking parameters. (A21, A11). 489761
- Dynamical chiral symmetry breaking in quantum chromodynamics. (A21, A11). 489849
- Evading the axion without massless quarks. (A21, A11). 486087
- Mass of the up quark and chiral symmetry at infinite momentum. (A21). 471979
- Nonleptonic hyperon decays and lightlike chiral structure of hadrons, 3. (A21). 481373
- CHIRALITY:**
- conservation laws**
Chirality conservation in the lattice gauge theory. (A11, A21). 467109
- CHITIN:**
- biological localization**
An ultrastructural and autoradiographic study of stipe elongation in agaricus bisporus. (C21). 482084
- chemisorption**
Removing radionuclides from water. (E51). 482909
- CHLAMYDOMONAS:**
- biological radiation effects**
Testing of dose-rate models with Chlamydomonas reinhardtii. (C12; Electrons). 461010
- CHLORAMBUCIL:**
See **ALKYLATING AGENTS**
- CHLORAMPHENICOL:**
- radioassay**
Assays for chloramphenicol compared: radioenzymatic, gas chromatographic with electron capture, and gas chromatographic-mass spectrometric. (B11). [Data] 486541
- CHLORANIL:**
- radiolysis**
Corrected G-values for amino acids and their complexes. (B14). 472544
- [Data]** 472544
- CHLORATES:**
(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- electron spin resonance**
Electron paramagnetic resonance of irradiated dihydrated cadmium chlorate. (A13). 471549
- oxygen ions**
EPR of the O₂ paramagnetic center in γ irradiated Na ClO₃. (A13). 471492
- physical radiation effects**
Bleaching and annealing experiments of the (Cl₂⁻) center in irradiated cadmium chlorate. (B25). 494165
- radiolysis**
Thermal stability of some radiation damage products in X-irradiated NaClO₃. (A32). [Data] 490036
- CHLORELLA:**
- aromatics**
Uptake of three labelled polychlorinated aromatics by chlorella fusca. (C21). 482108
- biological repair**
Repair of potentially lethal damage in a gamma-irradiated autotrophic microorganism. (C12). 490940
- orientation**
Magnetic effects in cellular and molecular systems. (C11). 476499
- CHLORIDES:**
See also more specific entries as listed in the INIS Thesaurus.
- corrosion**
Corrosion behavior of sodium-exposed stainless steels in chloride-containing aqueous solutions. (B15, E35). 476199
- Evaluation of the effectiveness of selected corrosion inhibitors for protection of prestressing steels in PCPVs. (B15, E22). 472561
- Exploratory study of inhibition of intergranular stress corrosion cracking in sensitized Type 304 stainless steel. (E31, B15). 477197
- crystal field**
Effect of ion electronic shell overlapping on electric field gradients in diamagnetic chlorides with perovskit structure. (A13; ABCl₃, where A=K,Rb,Cs; B=Mg,Ca,Sn,Hg,Pb,Cd,Sr). 485580
- entropy**
Standard transported entropy of chloride ion in H₂O and D₂O. (B12). 493652
- g value**
Radiolysis of concentrated solutions. 1. Pulse and γ radiolysis studies of direct and indirect effects in LiCl solutions. (B14). [Data] 460601
- inhibition**
Analytical application of Cherenkov radiation Pt. 2. (D22). 480315
- ion-molecule collisions**
Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
- CHLORINATED ALIPHATIC HYDROCAR:**
See **ORGANIC CHLORINE COMPOUNDS**
- CHLORINATED HYDROCARBONS:**
See **ORGANIC CHLORINE COMPOUNDS**
- CHLORINATION:**
- chemical radiation effects**
Kinetics of a system of consecutive and competitive chain reactions in the gas phase initiated by ionizing radiation in ideal flow reactors. (B14). 479263
- Radiation chlorination of chlorosubstituted derivatives of 2-picoline. (B14). 479289
- Radiation nitroschlorination of cyclohexane. (B14). [Data] 468966
- chemical reaction kinetics**
Kinetics of a system of consecutive and competitive chain reactions in the gas phase initiated by ionizing radiation in ideal flow reactors. (B14). 479263
- isotope effects**
Chlorination of phenylsulfonycyclopropanes and phenylthiocyclopropanes. (B12). 465353
- nitroso compounds**
Radiation nitroschlorination of cyclohexane. (B14). [Data] 468966
- CHLORINE:**
- activation analysis**
Athens 1° x 2° NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
- Determination of trace elements in poly(methyl methacrylate) by neutron activation analysis. (B11; Neutron reactions). [Data] 478829
- Harrisburg 1° x 2° NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- atom-atom collisions**
Collisions of halogen (²P) and rare gas (¹S) atoms. (A12; Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets). [Data] 477708
- Coupled-channel study of halogen (²P) + rare gas (¹S) scattering. (A12; partial wave, energy dependence, interference L-S coupling; differential cross sections). 485402
- atom-molecule collisions**
Collisional ionization of electronically excited lithium. (A12). 477782
- Uni- and bimodal product energy distributions for the reactions H + Cl₂($\gamma=1$) and D + Cl₂($\gamma=1$). (A12, B12). 483152
- chemical analysis**
Environmental monitoring near industrial sites: brominated chemicals. Part II: appendix. Final report 19 Jul-16 Dec 77. (B11, C52). 475899

- chemical reaction kinetics**
- Accuracy of trajectory calculations and transition state theory for thermal rate constants of atom transfer reactions. (B12). 460537
- Accuracy of tunneling corrections to transition state theory for thermal rate constants of atom transfer reactions. (B13). 460550
- Kinetics of chlorine-ammonia reactions in seawater. Annual report, June 1, 1977-May 31, 1978. (B12). [Data] 475973
- Rate constants for the reactions of atomic chlorine with Group 4 and Group 5 hydrides. (B12). 472460
- Thermal rate constants, energy dependence, and isotope effect for halogen-hydrogen halide reactions. (B12). 468808
- chemical reactions**
- Franck-Condon factors in studies of dynamics of chemical reactions. V. Simple construction of quasiadiabatic potential energy surfaces and numerical evaluation of Franck-Condon integrals. (B12). [Data] 465420
- Franck-Condon theory of chemical dynamics. VI. Angular distributions of reaction products. (B12; $H + H_2 \rightarrow H_2 + H$, $H_2 + F \rightarrow HF + H$, $H + Cl_2 \rightarrow HCl + Cl$). 486676
- Intermolecular energy transfer effects in thermal unimolecular reactions. (B12). 460534
- Quantitative comparison between detailed (state selected) relative rate data and averaged (thermal) absolute rate data for complex forming reactions. (B12). 462735
- Rate constant measurements at constant temperature by the flash photolysis-resonance fluorescence technique and recombination-dissociation theory for NO_2 and $NOCl$. (B12). 462723
- Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- Survey of reactions involving H^+ , H^- , and Cl atoms. (B13). 460579
- Symmetric atom exchange reaction $Cl^+ + HCl$. An arduous task for theory and experiment. (B12). 460482
- Tunnelling in collinear light-heavy-heavy reactions. (B12). 472435
- comparative evaluations**
- Tracing underground water movement using three NAA-detected halogen tracers. (B32). 472852
- dissociation**
- Halogen recombination: dissociation reactions. Current status. (B12). 460445
- ion-atom collisions**
- Systematics of the average L-shell ionization probability in K-shell ionizing collisions by light ions. (A12). 477840
- ion-molecule collisions**
- Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
- molecule collisions**
- Generalized transition state theory. Quantum effects for collinear reactions of hydrogen molecules and isotopically substituted hydrogen molecules. (B12). 486600
- molecule-molecule collisions**
- Quasiclassical trajectory study of the four-center reactions: $HBr + Cl_2$ and $HBr + BrCl$. (A12). [Data] 463955
- muonic atoms**
- Observation of μ -nucleon chlorine atom. (A12). 467161
- neutron activation analysis**
- Neutron activation analysis application to the investigation of some data on water-salt exchange. (B11). 493500
- photolysis**
- Rate constant measurements at constant temperature by the flash photolysis-resonance fluorescence technique and recombination-dissociation theory for NO_2 and $NOCl$. (B12). 462723
- quantitative chemical analysis**
- A feasibility study of the prompt gamma-ray analysis of bone using californium-252. (B11). [Data] 486506
- recombination**
- Halogen recombination: dissociation reactions. Current status. (B12). 460445
- trace amounts**
- Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- tracer techniques**
- An aspect of chlorine isotopic exchange. (B12). 493602
- CHLORINE BROMIDES:**
See BROMINE CHLORIDES
- CHLORINE CHLORIDES:**
See CHLORINE
- CHLORINE COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- adsorption**
- About mechanism of functioning ion-selective membranes on the base of neutral complexing agents. (B12). 486685
- stereochemistry**
- Evidence for Walden inversion in high energy chlorine-for-chlorine substitution reactions. (B13; Walden inversion). 486732
- CHLORINE FLUORIDES:**
- materials handling**
- Some considerations in the handling of fluorine and the chlorine fluorides. (B12, C52). 493589
- CHLORINE IODIDES:**
See IODINE CHLORIDES
- CHLORINE IONS:**
- collisions**
- Effect of target thickness on characteristic projectile x-rays and REC in ion-atom collisions. (A12; Fluorescence yield, 20 to 80 MeV, lifetime, cross sections). [Data] 471404
- Projectile K x-ray production in thin solid targets. (A12; 20 to 80 MeV, fluorescence yield, cross sections). [Data] 471405
- Projectile-charge-state dependence of target L-shell ionization by 1.86-MeV/amu fluorine and silicon ions and 1.8-MeV/amu chlorine ions. (A12). 477786
- electron spin resonance**
- Hyperfine interactions by EPR in iridium (II) hexachlorinated complex. (A13). 471524
- ion-atom collisions**
- Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754
- ion-molecule collisions**
- Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754
- positron-ion collisions**
- Solvated positron chemistry. II. (A12). 467265
- CHLORINE ISOTOPES:**
See also CHLORINE 34; CHLORINE 35; CHLORINE 36; CHLORINE 37; CHLORINE 38; CHLORINE 39
- isotope effects**
- Chlorine kinetic isotope effects in the methylation of pyridine and 2,6-lutidine. (B12). [Data] 472444
- CHLORINE 34:**
- energy levels**
- J-averaged behavior of the core polarization through third order for excitations up to 10 h ω . (A33). 486210
- CHLORINE 35:**
- atom-atom collisions**
- Crossed molecular beam studies on the interaction potentials for $Cl(P) + Xe(S)$. (A12). 459711
- isotopic exchange**
- Symmetric atom exchange reaction $Cl^+ + HCl$. An arduous task for theory and experiment. (B12). 460482
- laser isotope separation**
- Versatile, isotopically specific hydrogen halide TEA pin laser. (B12). 490355
- nuclear quadrupole resonance**
- Change in the ^{35}Cl NQR spectrum under pressure and thermal effect. (A13). 481103
- CHLORINE 35 BEAMS:**
- physical radiation effects**
- The depth distribution of disorder produced by room temperature 30 keV Ar^+ and Cl^+ ion irradiation of silicon. (A13). 459781
- CHLORINE 35 TARGET:**
- alpha reactions**
- High-spin yrast levels of ^{38}Ar . (A34). 483814
- aluminium 27 reactions**
- Rotational-energy contributions to the kinetic energies of deep-inelastic reaction products. (A33). 486199
- neutron reactions**
- Spin of the 398 eV resonance in ^{35}Cl . (A34). [Data] 465180
- CHLORINE 36:**
- energy levels**
- Spin of the 398 eV resonance in ^{35}Cl . (A34). [Data] 465180
- isotope dating**
- Radioisotope clocks in archaeology. (B31). 490783
- tracer techniques**
- Bulk blending studies of fertilizer by tracer technique. (C22). 463257
- urea**
- Bulk blending studies of fertilizer by tracer technique. (C22). 463257
- CHLORINE 37:**
- isotope effects**
- Use of chlorine kinetic isotope effects for evaluating ion pairing in nucleophilic displacements at saturated carbon. (B12). 460470
- isotopic exchange**
- Symmetric atom exchange reaction $Cl^+ + HCl$. An arduous task for theory and experiment. (B12). 460482
- laser isotope separation**
- Versatile, isotopically specific hydrogen halide TEA pin laser. (B12). 490355
- CHLORINE 38:**
- energy-level transitions**
- Probabilities of transitions between ^{38}Cl lower states and the ^{38}Ar lower state decay at $T=2$. (A34). 493445
- CHLORINE 39:**
- isotope production**
- Production of ^{39}Cl and ^{38}S by photonuclear reactions using argon gas target. (D13). [Data] 463490
- CHLORITE MINERALS:**
- fission tracks**
- Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- CHLOROBUTADIENE:**
See NEOPRENE
- CHLOROFORM:**
- distribution functions**
- The radial pair-distribution function of liquid $CHCl_3$. (B12, A13). 465322
- ecological concentration**
- Biocide by-products in aquatic environments. Annual report, October 1, 1977-September 30, 1978. (C52, B11; Analysis and toxicity of by-products from chlorine used in nuclear power plant cooling systems). [Data] 473199
- neutron diffraction**
- The radial pair-distribution function of liquid $CHCl_3$. (B12, A13). 465322
- retention**
- Biocide by-products in aquatic environments. Annual report, October 1, 1977-September 30, 1978. (C52, B11; Analysis and toxicity of by-products from chlorine used in nuclear power plant cooling systems). [Data] 473199

CHLOROPHYLL:

electron transfer

Electron transfer reactions involving porphyrins and chlorophyll a. (B12). 490390

CHLOROPLASTS:

orientation

Magnetic effects in cellular and molecular systems. (C11). 476499

quantitative chemical analysis

Quantitative high-performance liquid chromatographic analysis of ¹⁴C-labelled photosynthetic intermediates in isolated intact chloroplasts. (B11). 475875

CHLOROPRENE:

See NEOPRENE

CHLORPROMAZINE:

carbon 11

Automated synthesis of ¹¹C-labelled radiopharmaceuticals: imipramine, chlorpromazine, nicotine and methionine. (B13). 486693

radioimmunoassay

Radioimmunoassay for chlorpromazine in plasma. (C62; ³H tracer technique). 461414

radiosensitivity

Effect of selected drugs on first-stage radioemesis in beagle dogs. (C14; Following x irradiation of abdomen). 490953

toxicity

Hypoxic cytotoxicity of chlorpromazine and the modification of radiation response in E. coli B/r. (C11). [Data] 463057

CHOLECALCIFEROL:

biosynthesis

Isolation and identification of previtamin D₃ from the skin of rats exposed to ultraviolet irradiation. (C14). [Data] 472960

radioassay

Assay of 25-OH vitamin D₃. (C45). 487366

radioimmunoassay

Radiocompetitive estimation of 25-hydroxyvitamin D human serum. (C62). 494525

CHOLESTEROL:

iodine 131

High thyroid radiation dose associated with ¹³¹I-19-iodocholesterol adrenal scanning. (C21, C55, C61). 491037

labelling

Synthesis and labelling of ¹³¹I-19-iodocholesterol. (B13). 484070

oxidation

The oxidation of cholesterol by hydroxyl radical. (B14). 486768

radiolysis

Gamma irradiation of cholesteric products: effect of the presence of organic solvents. (B14). 468954

The oxidation of cholesterol by hydroxyl radical. (B14). 486768

CHOLIC ACID:

radioimmunoassay

Radioimmunoassay of primary and secondary bile acids in serum with specific antisera and ¹²⁵I-labelled ligands. (C45). [Data] 487357

Radioimmunoassay of conjugated cholic acid, chenodeoxycholic acid, and deoxycholic acid from human serum, with use of ¹²⁵I-labeled ligands. (C62). [Data] 487713

Specific bile acid radioimmunoassays for separate determinations of unconjugated cholic acid, conjugated cholic acid and conjugated deoxycholic acid in serum and their clinical application. (C45). [Data] 487362

CHONDRITES:

chemical composition

A carbonaceous inclusion from the Krymka LL-chondrite: noble gases and trace elements. (B31, B11). [Data] 479602

Noble gases in the Murchison meteorite: possible relics of s-process nucleosynthesis. (A15). 467943

cosmochemistry

On the distribution of rare earths in inclusions and chondrin from C3 chondrites. (B11, B31). 460380

deuterium

The hydrogen and deuterium concentrations in chondrites. (B31). 494211

electron microprobe analysis

A combined chemical-petrological study of separated chondrules from the Richardton meteorite. (A15). 467809

element abundance

The abundances of titanium, zirconium and hafnium in stony meteorites. (B11). [Data] 460423

On volatile element trends in gas-rich meteorites. (B31). 494183

hydrogen

The hydrogen and deuterium concentrations in chondrites. (B31). 494211

infrared spectra

The 10- and 20-μm interstellar absorption bands: comparison with the infrared spectrum of the Nogoya meteorite. (A15). 467815

isotope dating

⁸⁷Rb-⁸⁷Sr age of Saint Mesmin chondrite and dating of gas-rich polymict breccia. (B31). [Data] 472827

⁸⁷Rb-⁸⁷Sr chronology of H chondrites: constraint and speculations on the early evolution of their parent body. (B31). 476441

Gerontology of the Allende meteorite. (A15). [Data] 481275

isotope ratio

Cosmic-ray-produced ⁵⁵Mn in thirty-one meteorites. (A15). 460102

Cosmogenic radioisotopes in the Dhajala chondrite: implications to variations of cosmic ray fluxes in the interplanetary space. (A15). 460029

Gerontology of the Allende meteorite. (A15). [Data] 481275

Isotopic anomalies of noble gases in meteorites and their origins. (B31). 494178

Isotopic anomalies of noble gases in meteorites and their origins. 494178

(B31). 494179

Thermal metamorphism of primitive meteorites. (B31). [Data] 460850

magnetization

The magnetic effects of brecciation and shock in meteorites. II. (A15). 475205

manganese 53

Cosmic-ray-produced ⁵³Mn in thirty-one meteorites. (A15). 460102

petrogenesis

The petrogenesis of L-6 chondrites: insights from the chemistry of minerals. (B31). 487069

petrology

A combined chemical-petrological study of separated chondrules from the Richardton meteorite. (A15). 467809

quantitative chemical analysis

Accretion temperature of the Tieschitz, H3, chondritic meteorite. (A15). 485884

Thermal metamorphism of primitive meteorites. (B31). [Data] 460850

solar system evolution

Accretion temperature of the Tieschitz, H3, chondritic meteorite. (A15). 485884

The role of carbon and oxygen in cosmic gases: some applications to the chemistry and mineralogy of enstatite chondrites. (B31, A15). 494200

CHOOZ REACTOR:

See ARDENNES REACTOR

CHOPPERS (BEAMS):

See BEAM PULSERS

CHOPPERS (NEUTRON):

See NEUTRON CHOPPERS

CHROMATES:

(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)

chemical preparation

On the capacity to the complexing of alkaline earth metal and magnesium chromates. (B12; Alkaline earth metals: Mg, Ca, Sr, Ba). 493677

Synthesis and certain properties of binary rare earth and sodium chromates of NaLn(CrO₄)₂ composition. (B12). 465393

electron spin resonance

EPR-spectrum of irradiated potassium dichromate single crystals. (B14). [Data] 476172

materials testing

Evaluation of candidate magnetohydrodynamic materials for the U-02 Phase III test. (A16, B15, B23). 489672

photonuclear reactions

Chemical effects associated with (γ, n) reaction in potassium chromate. (B12). 468816

CHROMATID DELETIONS:

See CHROMOSOMAL ABERRATIONS

CHROMATIDS:

biological radiation effects

Sister chromatid exchanges in human lymphocytes exposed to ionizing radiation during G₀. (C11; γ rays). 490921

CHROMATIN:

biological radiation effects

DNA-metabolism in radiation damage to hemopoietic tissues: DNA biosynthesis, methylation, cyclic AMP regulation, repair transcription; correlation between DNP degradation and ATP level in tissues; postirradiation urinary deoxynucleosides. (C14). 466056

Nuclear thread bridging the sister cells prior to radiation-induced cell fusion. (C11; X rays; HeLa cells; marsupial kidney cells). 479778

biological repair

Processes of supramolecular structure self-assembly in cellular radiation damage and postirradiation repair. (C11, C13). 465891

chemical radiation effects

Structural and functional changes in eukaryotic supramolecular DNA after gamma irradiation. (C14). 466038

gamma radiation

Effect of gamma irradiation on chromosomal proteins from Yoshida ascites tumour chromatin. (C11). [Data] 476518

ultraviolet radiation

The use of ultraviolet light in the fractionation of chromatin containing unsubstituted and bromodeoxyuridine-substituted DNA. (C11). 490934

whole-body irradiation

Role of alkaline endonucleases in the release of soluble chromatin from thymus, spleen and liver nuclei of normal and irradiated mice. (C14). [Data] 490973

CHROMATOGRAPHY:

See also EXTRACTION CHROMATOGRAPHY; GAS CHROMATOGRAPHY; ION EXCHANGE CHROMATOGRAPHY; LIQUID COLUMN CHROMATOGRAPHY; RADIOCHROMATOGRAPHY; THERMOCHROMATOGRAPHY; THIN-LAYER CHROMATOGRAPHY

Determination of DTPA in urine by paper chromatography. (B11). 472386

comparative evaluations

A comparative investigation of various Sephadex G-types and Bio-Gel P-10 in the gel chromatographic analysis of sup(99m)Tc-labeled 1-hydroxy ethyldiene-1,1 diphosphonate. (B11). [Data] 462645

Radioimmunoassay of methaqualone in human urine compared with chromatographic methods. (C62; ¹²⁵I tracer technique). 470138

furnaces

High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362

- mathematical models**
Theory of chromatographic separation of isotopes, (3). (D13). 482504
- CHROMIUM:**
Nickel and nitrogen ion irradiation induced void swelling and defect microstructures in Ni-Al, Ni-Cr and Ni-Ti solid solutions. (B25, E35; 3.5 MeV $^{36}\text{Ni}^+$, 400 keV $^{14}\text{N}^+$ and 400 keV $^{14}\text{Ni}^+$). 469452
- absorption spectroscopy**
Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
A comparative study of mineralization methods applied to the determination of trace metals in suspensions by atomic absorption. (B11). [Data] 493483
- activation analysis**
Determination of chromium in Bowen's kale, NBS bovine liver, and brewers yeast, before and after dry ashing. (B11; Bowen's kale, NBS bovine liver, Brewers yeast). 486555
Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- adsorption**
Heats of chemisorption of O_2 , H_2 , CO , CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- carbon**
Soft X-ray appearance potential spectroscopy of C, N and O adsorbed on Cr, Mo and W. (A13). 459817
- chemical reactions**
The interaction of CsI with high-chromium alloys in the presence of oxygen. (B15). 493828
- corrosion**
Corrosion, stress corrosion cracking, and electrochemistry of the iron and nickel base alloys in caustic environments. Progress report, March 1, 1978 - February 28, 1979. (B15). 460629
- cracks**
Microanalysis of fluorine in microcracked chromium plate by proton induced prompt photon emission. (B11, B21). 490303
- diffusion**
Interfacial behavior of Cr-Au films in the 423-573-K temperature range. (B22, B15). 469184
- ecological concentration**
Cooling tower drift studies at the Paducah, Kentucky Gaseous Diffusion Plant. (C52; Transport of drift-derived chromium in terrestrial ecosystems). [Data] 461304
- electrodeposition**
Electrodeposition of chromium in the presence of cerium fluoride addition. (B12). 465403
- electronic structure**
Multiconfiguration Hartree-Fock method for atomic energy levels and transition probabilities. (A12). [Data] 492528
- electroplating**
Microanalysis of fluorine in microcracked chromium plate by proton induced prompt photon emission. (B11, B21). 490303
- electrorefining**
Development of semi-industrial technology for electrolytic powder production. (B23). 490677
- emission spectroscopy**
Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). [Data] 490812
- energy-level transitions**
Multiconfiguration Hartree-Fock method for atomic energy levels and transition probabilities. (A12). [Data] 492528
- environment**
Cooling tower drift studies at the Paducah, Kentucky Gaseous Diffusion Plant. (C52; Transport of drift-derived chromium in terrestrial ecosystems). [Data] 461304
- excitation**
K X-rays of Al, Ti, Cr, Fe and Ni induced by nitrogen ions. (A12). 467157
- films**
Systematic studies of α -particle elastic scattering and proton induced X-ray emission on Ni-Cr thin film resistors. (B11). 475882
- fluorescence**
Comparison of procedures for quantitative x-ray analysis in thin films. (B22, E17). 490631
- gas chromatography**
Progress report, July 1975 - September 1977. (F41, B11). 474371
- ion collisions**
Target and projectile cross sections for F ions on Ti, V, Cr, Fe, and Co: 1.7 MeV/amu. (A12). 488896
- ion implantation**
The effects of rare earth impurities on the oxidation of chromium. (B15, A13). [Data] 481746
- layers**
Factors determining the structure of Au, Ag and Cr thin layers deposited on alkaline halogen substrates. (A13). 459785
- magnetic susceptibility**
Electron diffraction study on deformation waves coupled with spin density waves in chromium. (B22, A13). 484243
- metabolism**
Plant nutritional study of chromium, (2). (C41). 473145
- monitoring**
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
Radionuclides and trace metals in surface air. (B33, C52, B11). [Data] 476482
- muon probes**
 μSR investigation of metals: antiferromagnetic Cr and superconducting V_3Ga . (A13, A17). 474771
- muons plus**
Theory of positive muon depolarization in antiferromagnetic chromium. (A13). 492638
- neutron activation analysis**
The determination of manganese uranium, chromium, copper, and molybdenum, in special steel(uranium steel) by neutron activation analysis. (B11). 472409
- neutron reactions**
Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). 486389
Status of ENDF/B-V neutron emission spectra induced by 14-MeV neutrons. (A34; Partial and total spectra, cross sections, graphs). [Data] 478734
- nitridation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- nitrogen**
Soft X-ray appearance potential spectroscopy of C, N and O adsorbed on Cr, Mo and W. (A13). 459817
- oxidation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
The effects of rare earth impurities on the oxidation of chromium. (B15, A13). [Data] 481746
- oxygen**
Soft X-ray appearance potential spectroscopy of C, N and O adsorbed on Cr, Mo and W. (A13). 459817
- physical radiation effects**
Formation of chemical compounds under ion bombardment of thin films of Cr, Ni, Mo transition metals. (B25). 490713
- quantitative chemical analysis**
Acricone - A new reagent for the detection of cerium(IV), chromium(VI), and vanadium(V) in binary or ternary mixtures. (B11). 478865
Application of the resonant $^{52}\text{Cr}(p,\gamma)^{53}\text{Mn}$ reaction to the measurement of chromium depth distributions. (B11). 468672
- resistors**
Systematic studies of α -particle elastic scattering and proton induced X-ray emission on Ni-Cr thin film resistors. (B11). 475882
- rhodium additions**
Hyperfine fields in dilute Cr-Rh systems. (A13). 467450
- root absorption**
Plant nutritional study of chromium, (2). (C41). 473145
- secondary emission**
A comparison of experimental secondary ion energy spectra of polycrystalline metals with theory. (A13). [Data] 471558
- self-diffusion**
Positron trapping and self-diffusion activation energies in chromium. (A13). [Data] 485581
- surface coating**
Effects of vacuum processing erbium dideuteride/ditritide films deposited on chromium underlays on copper substrates. (B23, B21, D22). 486967
Improving the voltage holdoff performance of alumina insulators in vacuum through quasisemiconductorization. (B23). 494075
- x radiation**
Proton-induced K x-ray production from Ca to Fe for 0.2 to 0.5 MeV incident energy. (A12). [Data] 488863
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- x-ray spectra**
Theory for the $L_{\text{sub}}(2,3)$ soft x ray appearance spectra for the 3d transition metals. (A13). 481139
- CHROMIUM ADDITIONS:**
See also STEEL-22NIMOCR37; ZIRCALOY 2
- spin-lattice relaxation**
Anomalous specific heat and nuclear spin relaxation in Al-transition metal alloys. (A13). 471556
- CHROMIUM ALLOYS:**
See also more specific entries as listed in the INIS Thesaurus.
- corrosion protection**
Corrosion inhibition in sputter-deposited thin-film systems using an intermediary layer of palladium. (B15). 476195
- creep**
Creep behavior of Hastelloy X, 2 1/4 Cr-1 Mo steel, and other alloys in simulated HTGR helium. (B22, E33). 486902
Development of Co-free Ni-base superalloy for HTGR. (E33, B22). 470701
- interfacial microstructure and low stress, high temperature creep of an austenitic stainless steel.** (B22, E22; 800°C). 465632
- Long-time creep-rupture properties and elevated temperature stability of D-979.** (B22, E22). 469336
- Resistance welding of pressurized capsules for in-pile creep experiments.** (B21, E35, E42). 460659
- crystal lattices**
Mechanism of polarization of rare-earth ions in orthoferrites and orthochromites. (A13; Cr³⁺). 467412
- crystal structure**
Effect of air-cooling heat treatments on the structure and properties of Fe/4Cr/0.3C/2Mn alloy. (B22, B21). 494019

- crystal-phase transformations**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
Long-time creep-rupture properties and elevated temperature stability of D-979. (B22, E22). 469336
Metal alloys with dispersed particles. (B22). 476315
- elasticity**
Pressure derivatives of the elastic moduli of BCC Ti-V-Cr, Nb-Mo and Ta-W alloys. (B22). [Data] 472650
- fabrication**
Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
High resisting alloy without Co used in nuclear industry. (B21). 462830
- fracture properties**
Fracture toughness of AISI M2 and AISI M7 high-speed steels. (B22). 469197
- friction**
High temperature friction and seizure in gas cooled nuclear reactors. (B22). 462866
Sliding wear studies of sprayed chromium carbide-nichrome coatings for gas-cooled reactor applications. (B23, E33). 465693
- intermetallic compounds**
Tempering of a beta quenched Zr-1.9 wt% Cr alloy. (B22). 469247
- lattice parameters**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
Equilibrium studies on a chi phase-strengthened ferritic alloy. (B22, E22). 469258
- magnetic properties**
Effects of substitution of chromium and nickel on the magnetic properties of $\text{Er}_2\text{Co}_{17}$ and $\text{Sm}_2\text{Co}_{17}$. (B22). 479447
NMR of Cu satellites in the Kondo alloy CuCr. (B22). 479360
Rare earth-cobalt permanent magnets with improved mechanical properties. (B22). 479444
Specific heat of superconducting films of indium and of indium alloyed with magnetic impurities. (B22, A17). 465595
- mechanical properties**
Effect of air-cooling heat treatments on the structure and properties of Fe/4Cr/0.3C/2Mn alloy. (B22, B21). 494019
Effects of air melting on Fe/0.3/3Cr/0.5Mo/2Mn and Fe/0.3C/3Cr/0.5Mo/2Ni structural alloy steels. (B21, B22). 493899
Influence of recrystallization behavior on the mechanical properties of XM-19 stainless steel (22Cr-13Ni-5Mn-2Mo-0.3N). (B22). 490597
- microstructure**
Effects of air melting on Fe/0.3/3Cr/0.5Mo/2Mn and Fe/0.3C/3Cr/0.5Mo/2Ni structural alloy steels. (B21, B22). 493899
Interfacial microstructure and low stress, high temperature creep of an austenitic stainless steel. (B22, E22; 800°C). 465632
- neel temperature**
Spin density waves in chromium and its alloys. (A11). 492417
- order parameters**
Ordering and decomposition in Fe-Cr-Co martensite. (B22). 484280
- order-disorder transformations**
On the kinetics of ordering of Ni-33.3 at.% Cr alloy preliminary deformed by ultrasonics. (B22). 484169
- oxidation**
The oxidation behaviour of austenitic Fe-Cr-Ni alloys containing dispersed phases. (B15). [Data] 481748
- phase diagrams**
Phase equilibria of the Sc-Ti-Ga and Sc-Cr-Ga systems at 800 deg C. (B22). 469170
Study on phase diagram of Cu-Cr-Zr alloy system. (B22). 493981
Thermodynamics of precipitation systems. (B22, B21). 486938
- phase studies**
Oxygen partial pressure: a key to alloying and discovery in metal oxide-metal eutectic systems. (B23). [Data] 460776
- physical radiation effects**
Helium blistering at high irradiation doses. (B25). 472752
Nickel and nitrogen ion irradiation induced void swelling and defect microstructures in Ni-Al, Ni-Cr and Ni-Ti solid solutions. (B25, E35; 3.5 MeV $^{58}\text{Ni}^+$, 400 keV $^{14}\text{N}^+$ and 400 keV $^{14}\text{Ni}^+$). 469452
Radiation-induced solute segregation in a V-15 Wt. % Cr alloy. (B25, A14). 472773
Radiation-induced solute segregation in a V-15 wt % Cr alloy. (A14, B25). 471710
Segregation of nickel to voids in an irradiated high-nickel alloy. (B25; Nickel ion irradiation). 469437
- precipitation hardening**
Thermodynamics of precipitation systems. (B22, B21). 486938
- recrystallization**
Influence of recrystallization behavior on the mechanical properties of XM-19 stainless steel (22Cr-13Ni-5Mn-2Mo-0.3N). (B22). 490597
- resistance welding**
Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
- scaling**
Effect of underscale layer on scale-resistance of Fe-Cr-Mn alloys. (B15). 465503
- solid solutions**
Investigation into supersaturation with niobium of nickel-chromium alloys in the process of granulation. (B22). 490574
- specific heat**
Specific heat of superconducting films of indium and of indium alloyed with magnetic impurities. (B22, A17). 465595
- tempering**
Tempering of a beta quenched Zr-1.9 wt% Cr alloy. (B22). 469246
Tempering of a beta quenched Zr-1.9 wt% Cr alloy. (B22). 469248
Tempering of a beta quenched Zr-1.9 wt% Cr alloy. (B22). 469247
- tensile properties**
Deformation and annealing study of nicaloy. (B22). 486879
Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
Tempering of a beta quenched Zr-1.9 wt% Cr alloy. (B22). 469248
- testing**
Development testing of a pocket-type, hydrostatic rotary end face seal in high-pressure water. (E34, B22). 480668
- thermal conductivity**
Thermal conductivity of VN-CrN system solid solutions. (B22). 465564
- transition temperature**
Superconductivity in amorphous 3d-transition-metal alloy films. (B22, A17). 469137
- wear resistance**
Sliding wear studies of sprayed chromium carbide-nichrome coatings for gas-cooled reactor applications. (B23, E33). 465693
- CHROMIUM BASE ALLOYS:**
See also HAVAR
- mechanical properties**
Properties and use of chromium alloys. (B23). 469380
- CHROMIUM CARBIDES:**
friction
Lubrication of nuclear reactor components. (E35). 477296
Sliding wear studies of sprayed chromium carbide-nichrome coatings for gas-cooled reactor applications. (B23, E33). 465693
wear resistance
Lubrication of nuclear reactor components. (E35). 477296
Sliding wear studies of sprayed chromium carbide-nichrome coatings for gas-cooled reactor applications. (B23, E33). 465693
- CHROMIUM CHLORIDES:**
excretion
Effects of chelating agents on the elimination of chromium in mice. (C45). 473175
- CHROMIUM COMPLEXES:**
annealing
Competition between thermal annealing and decomposition processes in neutron-irradiated solid tris(8-hydroxyquinolate)-chromium(III). (B25). [Data] 479548
- chemical preparation**
Reactions of the difunctional organochromium cation 3,3'-oxybis(chromiomethyl)benzene(4+), $(\text{CrCH}_2\text{C}_6\text{H}_4)_2\text{O}^{4+}$. (B12). 486632
- chemical reaction kinetics**
Kinetics of aquation of the tris(acetylacetonate) complexes of divalent chromium, cobalt, and ruthenium. A pulse radiolytic study. (B14, B12). [Data] 486751
Reactions of the difunctional organochromium cation 3,3'-oxybis(chromiomethyl)benzene(4+), $(\text{CrCH}_2\text{C}_6\text{H}_4)_2\text{O}^{4+}$. (B12). 486632
- chemical reactions**
Reactions of the excited states of substituted polypyridinechromium(III) complexes with oxygen, iron(II) ions, ruthenium(II) and -(III), and osmium(II) and -(III) complexes. (B12). 460446
- decomposition**
Competition between thermal annealing and decomposition processes in neutron-irradiated solid tris(8-hydroxyquinolate)-chromium(III). (B25). [Data] 479548
- polarized targets**
Dynamic polarization of protons and deuterons with Crsp(V)-complex in pure stable form. (B12). 468752
- pyrolysis**
Amine complexes of chromium (3) and cobalt (3) salt with BH_4^- and B_3H_6^- anions in second sphere and their thermal stability. (B12). 476074
- radiolysis**
Kinetics of aquation of the tris(acetylacetonate) complexes of divalent chromium, cobalt, and ruthenium. A pulse radiolytic study. (B14, B12). [Data] 486751
- spin-lattice relaxation**
Dynamic polarization and relaxation of protons in Cr(V) complexes in dimethylformamide. (A12). 483221
- CHROMIUM COMPOUNDS:**
See also CHROMATES; CHROMIUM CARBIDES; CHROMIUM CHLORIDES; CHROMIUM HYDRIDES; CHROMIUM OXIDES; CHROMIUM SELENIDES; CHROMIUM SULFATES; CHROMIUM SULFIDES; CHROMIUM TELLURIDES
- carbonyls**
Transient species in the pulse radiolysis of cyclohexane solutions of group VI metal carbonyls. (B14). 479162
- dissociation energy**
Determination of bond energies by mass spectrometry. Some transition metal carbonyls. (B12). [Data] 460503
- ion exchange chromatography**
Anion exchange separation of chromium and molybdenum from iron, vanadium, uranium and other elements in malonic acid solution. (B12). 465292
- ion implantation**
The effects of rare earth impurities on the oxidation of chromium. (B15, A13). [Data] 481746
- materials testing**
Results of tests and studies of American materials in the channel of the MHD facility U-02 (Phase III). (A16, B23, B15; LaCrO₃). [Data] 471941

- photolysis**
Reactivity of the carbonate radical toward metal complexes in aqueous solution. (B14). 472506
- radiolysis**
Radiation chemistry of Cr(III) solutions in the presence of electron scavengers. (B14). [Data] 493819
Transient species in the pulse radiolysis of cyclohexane solutions of group VI metal carbonyls. (B14). 479162
- radiometric analysis**
Method of simultaneous continuous determination of transfer rates of iron and chromium into solution during Fe-Cr alloys dissolution. (B15). 465509
- CHROMIUM HYDRIDES:**
electronic specific heat
Electronic specific heats in metal-hydrogen systems. (B23). 486953
- CHROMIUM IONS:**
electron spin resonance
Thermoluminescence and electron spin resonance studies of irradiated biological single crystals. (B25). 460809
ENDOR
Electric field effect in electron-nuclear double resonance of Cr³⁺ ions in ruby. (A13). 474888
- CHROMIUM ISOTOPES:**
See also CHROMIUM 48; CHROMIUM 51; CHROMIUM 52; CHROMIUM 53; CHROMIUM 57
energy-level transitions
Effective charges and E2 transitions in 1f-2p shell nuclei. (A34). [Data] 468464
nuclear radii
Nuclear charge radii of the 1f/sub 7/2/ shell nuclei from muonic atoms. (A34). [Data] 486484
- CHROMIUM OXIDES:**
catalysts
Study of catalytic properties of V₂O₅-Cr₂O₃ system during methanol oxidation. (B12). 486623
chemical properties
Rare earth ceramics for MHD-power generators. (B23, A16). 479486
corrosion products
Investigation into corrosion products formation in the main technological APS systems with RBMK-1000 during operation. (B15). 493841
electron diffraction
Fine structure in elastic-electron-yield spectra at transition-metal core energies. (A12). 481028
electronic structure
Optical properties of CrO₂, MoO₃, and WO₂ in the range 0.2-6 eV. (B23). 469361
lattice parameters
Structure of PWR primary corrosion products. (E32, B15, B23). 480650
muon probes
μSR in antiferromagnetic Cr₂O₃ and α-Fe₂O₃. (A13). 474876
neutron diffraction
Magneto-electric splitting of the crystal field GAMMA₇-level of Cr³⁺ ions in MgCr₂O₄ studied by neutron spectroscopy. (A13). 462211
optical properties
Optical properties of selective surfaces. (A13). 471426
Optical properties of CrO₂, MoO₃, and WO₂ in the range 0.2-6 eV. (B23). 469361
photoelectron spectroscopy
Study of transition metal oxides by photoelectron spectroscopy. (A13). 492686
physical properties
Influence of composition and cation stoichiometry on the volatility, electrical conductivity and thermal expansion of LaCrO₃ based oxides. (B23, A16). 479469
Rare earth ceramics for MHD-power generators. (B23, A16). 479486
semiconductor materials
Optical properties of selective surfaces. (A13). 471426
thermodynamic properties
Solar furnace experiments for thermophysical properties studies of rare-earth oxide MHD materials. (B23, A16). 479480
zone melting
New developments in the IZG of metal oxide-metal eutectic composites. (B23). 465692
- CHROMIUM SELENIDES:**
absorption spectra
Magnetic dichroism in CdCr₂Se₄ thin films. (A13). 485588
chemical reactions
Study of CuCr₂Se₄ reaction with certain salts. (B12; Salts: CuI, CdCl₂, NaCl, CuBr, PbCl₂-CaCl₂, PbCl₂-CdCl₂). 465293
faraday effect
Magnetic dichroism in CdCr₂Se₄ thin films. (A13). 485588
photoconductivity
Impurity band in In-doped CdCr₂Se₄ observed in the spectral dependence of the photoconductance. (B23, A17). 469391
- CHROMIUM STEELS:**
(Steels containing Cr as main alloying element.)
corrosion
Corrosion of valve metals. (B15). 468991
On dependence of the critical rate of cracks growth on temperature. (B15). 465500
Results of sulfide stress cracking tests in different laboratories on SAE 4135 steel modified with 0.75% Mo and 0.035% Cb. (B15). 469014
corrosion products
Etching of oxide scales on chromium ferritic steels. (B22). 462875
corrosion protection
Inhibition of anodic pitting of stainless steels by chlorate and perchlorate ions. (B15). 469003
- corrosion resistance**
Corrosion resistance of metallic materials in titanium tetrachloride vapors. (B15). 465507
Effect of galvanodiffusive alitizing, molybdenizing, siliconizing of steel-4Kh13 on its corrosion cracking susceptibility. (B15, B22). 493827
Stainless chromium steels. Chapter III. (B15). [Data] 462800
creep
Creep deformation, creep damage accumulation and residual life prediction for three low alloyed CrMo-steels. (B22). 479412
On the high-temperature cracking resistance of metals. (B22). 469202
crystal-phase transformations
α → γ transformation in maraging steels and austenite stabilization. (B22). 469113
Hot working effect on austenite transformations in structural steel in continuous cooling. (B22). 494054
diffusion coatings
Effect of galvanodiffusive alitizing, molybdenizing, siliconizing of steel-4Kh13 on its corrosion cracking susceptibility. (B15, B22). 493827
ductile-brittle transitions
Brittleness of high-chromium ferritic stainless steels. (B22). 469179
fatigue
Changes in fatigue crack growth rate in specimens with annular notches. (B22). 484228
High temperature low cycle biaxial fatigue of two steels. (B22). 493927
martensite
Development of plastic deformation of packet martensite. Low-carbon steel. (B22). 484184
mechanical properties
Improvement in the mechanical properties of high-tensile bolts. (B22). 490629
pitting corrosion
Pitting corrosion of welded joints of chromomanganese with nitrogen austenite steel. (B15). 493843
precipitation hardening
High-chromium steels alloyed with nitrogen. (B22). 469160
sprayed coatings
Improvement of wear resistance of machine elements by plasma spraying followed by hardening in the chlorine-barium melt. (B21). 493875
strain aging
Mechanisms of plastic deformation of alloyed steels during strain aging. (B22). 469293
strain hardening
Tempering resistance of martensite strain hardening. (B22). 494042
stress corrosion
Results of sulfide stress cracking tests in different laboratories on SAE 4135 steel modified with 0.75% Mo and 0.035% Cb. (B15). 469014
tensile properties
Influence of deformation in martensite state on properties of steel at elevated temperature of tests. (B22). 490602
ultrasonic waves
Effect of ultrasound on tempering in chromium and manganese steels. (B22). 476243
vanadium additions
Vanadium effect on ductility of nickelless ferrite stainless steels. (B22). 465635
x-ray fluorescence analysis
A fundamental parameter method for analysis of alloys by isotope-excited X-ray fluorescence. (B11). 472360
- CHROMIUM SULFATES:**
absorption spectra
Solid state spectra of ions in crystals. (A13). 481147
- CHROMIUM SULFIDES:**
electron spin resonance
Paramagnetic resonance in ferromagnetic spinel CdCr₂S₄ with cation and anion substitutions. (A13). 467458
ferromagnetic resonance
Ferromagnetic resonance in CdCr₂S₄ crystals doped with silver. (A13). 467446
magnetic susceptibility
Magnetic properties of the CrSsub(x)Tesub(1-x) (x = 0-0.2) solid solutions. (B12). [Data] 468798
magnetization
Magnetic properties of the CrSsub(x)Tesub(1-x) (x = 0-0.2) solid solutions. (B12). [Data] 468798
- CHROMIUM TELLURIDES:**
lattice parameters
On the phase CrTe₃. (B22). [Data] 479411
magnetic moments
Neutron diffraction investigations of chromium telluride at high pressures. (B22). 476292
magnetic susceptibility
Magnetic properties of the CrSsub(x)Tesub(1-x) (x = 0-0.2) solid solutions. (B12). [Data] 468798
magnetization
Magnetic properties of the CrSsub(x)Tesub(1-x) (x = 0-0.2) solid solutions. (B12). [Data] 468798
- CHROMIUM 48:**
gamma spectroscopy
Gamma-ray spectroscopy on ⁴⁸Cr. (A34). 475801
high spin states
Gamma-ray spectroscopy on ⁴⁸Cr. (A34). 475801
- CHROMIUM 50 TARGET:**
helium 3 reactions
Small-angle cross sections for /sup 50,52/Cr(³He,d)/sup 51,53/Mn at

| | | | |
|--|--------|--|--------|
| 18 MeV. (A34). | 468537 | oxygen 18 reactions | |
| lithium 6 reactions | | Differences in ^{16}O and ^{18}O induced inelastic scattering. (A34). | 486444 |
| Mean lifetime of the 6.38 MeV 8^+ state in ^{54}Fe . (A34). [Data] | 493416 | photonuclear reactions | |
| neutron reactions | | The (γ, p_n) reactions in the giant dipole resonance region of ^{51}V and ^{52}Cr nuclei. (A34). | 483935 |
| Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). | 486389 | pion reactions | |
| proton reactions | | Interactions of 200-GeV pions in nuclei. (A22). [Data] | 464905 |
| Analysis of data on the sections of elastic scattering through compound nucleus and (p, p') reactions on the $\text{sup}(50, 52)\text{Cr}$, $\text{sup}(54, 56)\text{Fe}$, $\text{sup}(58, 60, 62)\text{Ni}$ according to the Tepel-Weidenmuller model. (A33). | 493285 | proton reactions | |
| CHROMIUM 51: | | Analysis of data on the sections of elastic scattering through compound nucleus and (p, p') reactions on the $\text{sup}(50, 52)\text{Cr}$, $\text{sup}(54, 56)\text{Fe}$, $\text{sup}(58, 60, 62)\text{Ni}$ according to the Tepel-Weidenmuller model. (A33). | 493285 |
| biological half-life | | Analysis of data on the scattering of protons with the energy in the 6 MeV range on ^{52}Cr . (A34). | 493336 |
| Erythrocyte life span and sequestration studies with ^{51}Cr in Kala Azar. (C45). | 482174 | Application of the resonant $^{52}\text{Cr}(p, \gamma)^{53}\text{Mn}$ reaction to the measurement of chromium depth distributions. (B11). | 468672 |
| biological localization | | radioactivation | |
| The measurement of the depth of a point source of a radioisotope from gamma ray spectra. (C31). [Data] | 473121 | A method to measure average neutron activation cross-sections by neutron sources. (E41). | 470940 |
| blood platelets | | CHROMIUM 53: | |
| Nuclear hematology. (C62). | 482423 | excited states | |
| erythrocytes | | Lifetimes of excited states in ^{54}Mn and ^{53}Cr . (A34). [Data] | 462639 |
| Erythrocyte tagging with radiochromium (^{51}Cr). (C31). | 494363 | lifetime | |
| Nuclear hematology. (C62). | 482423 | Lifetimes of excited states in ^{54}Mn and ^{53}Cr . (A34). [Data] | 462639 |
| excited states | | nilsson-mottelson model | |
| Strongly deformed $\text{Ksup}(\pi)=1/2^-$ bands in ^{51}Cr and ^{53}Fe . (A34). | 465158 | Possible evidence for deformed $7/2^-$ states in $\text{N}=29$ nuclei. (A33). | 478638 |
| gamma radiation | | CHROMIUM 53 TARGET: | |
| Counting yield calibration of NaI(Tl) detectors for complex geometry samples by use of californium-252. (E41). | 485082 | alpha reactions | |
| isotope production | | Total cross sections of alpha particle reactions in the range of $48 \leq A \leq 54$. (A34). | 493369 |
| Excitation functions for radioactive isotopes produced by proton bombardment of Fe, Co, and W in the energy range from 10 to 60 MeV. (A34). | 490235 | carbon 12 reactions | |
| kidneys | | Pre-equilibrium processes of neutron production in helium and carbon reactions. (A34). | 493371 |
| Measurement of glomerular filtration in dogs by ^{51}Cr -EDTA and ^{113}In -DTPA. (C31). [Data] | 461131 | deuteron reactions | |
| labelling | | Total cross sections for deuterons in the $48 \leq A \leq 54$ range. (A34). | 493370 |
| Competition between thermal annealing and decomposition processes in neutron-irradiated solid tris(8-hydroxyquinolate)-chromium(III). (B25). [Data] | 479548 | electron reactions | |
| nuclear reaction yield | | Electroexcitation of low-lying states in $\text{sup}(52, 53)\text{Cr}$ nuclei. (A34). | 465208 |
| Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data] | 486423 | excited states | |
| radionuclide kinetics | | Electroexcitation of low-lying states in $\text{sup}(52, 53)\text{Cr}$ nuclei. (A34). | 465208 |
| Determination of the glomerular filtration rate in mice by a total plasma slope clearance of ^{51}Cr -EDTA depending on age and sex. (C21). | 466199 | CHROMIUM 54 TARGET: | |
| Results from animal experiments on $^{51}\text{chromium}$ -albumin kinetics after intravenous application of hylase 'Dessau'. (C21). | 466195 | alpha reactions | |
| spectroscopic factors | | Total cross sections of alpha particle reactions in the range of $48 \leq A \leq 54$. (A34). | 493369 |
| Transfer reactions and scattering induced by ^{13}C on ^{52}Cr . (A34). | 464841 | deuteron reactions | |
| tracer techniques | | Total cross sections for deuterons in the $48 \leq A \leq 54$ range. (A34). | 493370 |
| Effects of chelating agents on the elimination of chromium in mice. (C45). | 473175 | CHROMIUM 57: | |
| Erythrocyte life span and sequestration studies with ^{51}Cr in Kala Azar. (C45). | 482174 | half-life | |
| veterinary medicine | | New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). | 481542 |
| Measurement of glomerular filtration in dogs by ^{51}Cr -EDTA and ^{113}In -DTPA. (C31). [Data] | 461131 | mass | |
| CHROMIUM 52: | | New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). | 481542 |
| nuclear decay | | CHROMIUM-MOLYBDENUM STEELS: | |
| Decay of highly excited nuclei following $^{48}\text{Ti}(^{16}\text{O}, ^{12}\text{C})$ at 120 MeV. (A34). | 478720 | (Steels containing Cr and Mo as main alloying elements; the Cr content is higher than Mo content.) | |
| CHROMIUM 52 TARGET: | | See also ALLOY-HT-9; STEEL-KH17N13M3T; STEEL-03KH11N10M2T; STEEL-12KHM; STEEL-15KHIM1F; STEEL-15KHIM1FL | |
| alpha reactions | | acoustic emission testing | |
| Total cross sections of alpha particle reactions in the range of $48 \leq A \leq 54$. (A34). | 493369 | Application of acoustic emission in the study of material fracture initiation. (E17). | 477095 |
| carbon 13 reactions | | Evaluation defect size by the acoustic emission method from the position of linear breakdown mechanics. (B22). | 494033 |
| Transfer reactions and scattering induced by ^{13}C on ^{52}Cr . (A34). | 468481 | bainite | |
| deuteron reactions | | Tempering stability of bainite steels. (B22). | 493976 |
| The optical model for elastic scattering of 10 to 15 MeV polarized deuterons from medium-weight nuclei. (A34). | 468490 | carburation | |
| Total cross sections for deuterons in the $48 \leq A \leq 54$ range. (A34). | 493370 | Effect of carbon activity on the creep behaviour of 21/4Cr, 1Mo steel in sodium. (B22). | 472630 |
| electron reactions | | cladding | |
| The (γ, p_n) reactions in the giant dipole resonance region of ^{51}V and ^{52}Cr nuclei. (A34). | 483935 | Effect of weld surfacing shedule on the properties of a heat affected zone in the 15KH11MF steel. (B22). | 465641 |
| Electroexcitation of low-lying states in $\text{sup}(52, 53)\text{Cr}$ nuclei. (A34). | 465208 | Some peculiarities of anticorrosive building-up by splitted strip electrode for NPP equipment. (B21). | 469064 |
| excited states | | corrosion | |
| Electroexcitation of low-lying states in $\text{sup}(52, 53)\text{Cr}$ nuclei. (A34). | 465208 | Accelerated corrosion testing of a sodium heated 2 1/4Cr-1Mo steam generator tube. (B15, E17, E35). | 460613 |
| helium 3 reactions | | Corrosion of 2 1/4 Cr-1Mo steel under superheat transfer conditions. (B15, E35). | 460618 |
| Small-angle cross sections for $\text{sup } 50, 52/\text{Cr}(^3\text{He}, d)/\text{sup } 51, 53/\text{Mn}$ at 18 MeV. (A34). | 468537 | Corrosion resistance of ferritic steels in alkaline solutions. (B15, E35). | 460634 |
| Spectroscopic study of the $\text{N}=27$ nuclei by means of the (τ, α) reaction. (A34). | 481555 | Molten sodium effect on structural materials for fast reactor heat transfer circuits. (B15). | 476189 |
| neutron reactions | | New Fe-Cr-Mo ferritic stainless steels. (B15). | 469013 |
| Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). | 486389 | Waterside corrosion of stabilised 2 1/4%Cr-1%Mo ferritic steel under high heat flux conditions. (B15, E35). | 460632 |
| A method to measure average neutron activation cross-sections by neutron sources. (E41). | 470940 | corrosion resistance | |
| oxygen 16 reactions | | Effect of the steel hardening on resistance to the sulfide corrosion cracking. (B22). | 469217 |
| Differences in ^{16}O and ^{18}O induced inelastic scattering. (A34). | 486444 | Investigation of corrosion cracking of high-alloyed steels in the high-parameter chloride and alkali solutions. (B22, B15). | 469264 |
| | | cracks | |
| | | Study on the rationalization of intermediate post-weld heat treatment. (B21, E22). | 469073 |

- creep**
- Analytical representation of mechanical properties data for 2 1/4 Cr-1 Mo steel. (B22). 460691
- Creep behavior of Hastelloy X, 2 1/4 Cr-1 Mo steel, and other alloys in simulated HTGR helium. (B22, E33). 486902
- Creep deformation, creep damage accumulation and residual life prediction for three low alloyed CrMo-steels. (B22). 479412
- Effect of carbon activity on the creep behaviour of 21/4Cr, 1Mo steel in sodium. (B22). 472630
- Mechanical properties data of 2-1/4Cr-1Mo steel for the experimental very high temperature gas-cooled reactor. (B22). 490616
- [Data] On the high-temperature cracking resistance of metals. (B22). 469202
- Regression analysis of creep-rupture data: a practical approach. (B22). 493925
- Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
- Status of the minimum-commitment method for creep-rupture applications. (B22). 493992
- Study of tertiary creep instability in several elevated-temperature structural materials. (B22). 460690
- Survey of creep data on structural materials of fast breeder reactor. (B22). 469343
- Tensile, creep, and creep-rupture studies on 2 1/4 Cr-1 Mo steel. (B22, E35). 460724
- Tertiary creep behavior of annealed 2 1/4 Cr-1 Mo steel. (B22). 469210
- Unusual creep behavior in a commercial nickel-chromium alloy. (B22, E22). 472654
- crystal-phase transformations**
- Formation of intermetallic phases in steels of the Fe-Cr-Ni-Co-Mo system. (B22). 469226
- X-ray study of lattice state of austenite steels and alloys near martensite transformation temperature. (B22). 479386
- deformation**
- Biaxial cyclic deformation behaviour of steels. (B22). [Data] 481796
- ductility**
- Intensification of methods for steel and alloy plastic working used in turboengineering. (B22, B21). 493948
- electroslag welding**
- Electroslag welding of thick-walled components of nuclear power plant vessels. (B21). 469046
- fabrication**
- Materials technology for LMFBR steam generators. (B22, E35). 490562
- failures**
- Notch effects in uniaxial tension specimens. (B21). 465536
- fast neutrons**
- The assessment of neutron radiation effect on reactor steels using fracture mechanics parameters. (B25). [Data] 476386
- fasteners**
- Resistance to brittle fracture of the EhP44 fastener steel under long-term operation. (B22, B21). 479435
- fatigue**
- Analytical representation of mechanical properties data for 2 1/4 Cr-1 Mo steel. (B22). 460691
- Correlation of high cycle and low cycle fatigue data for some HTGR structural metals. (E33, B22). 461729
- Fatigue behavior of 2 1/4 Cr-1 Mo steel in support of steam generator development. (B22). 460695
- fracture properties**
- Four-point bending of the cylindrical specimen with an external annular crack. (B22). 494007
- Fracture and plastic deformation during fracture toughness test. (B22). 472657
- Repair or no-repair decision of large pressure vessels. (E22). 482706
- Specimen for investigation into resistance to fatigue and brittle fracture of materials for fastener. (B22). 493967
- friction**
- On the wear behaviour of Nb-stabilized 2 1/4Cr1Mo steel tubes in sodium. (B15, E35). 460633
- grain size**
- Investigation into grain boundary strengthening of steels. (B22). 469176
- heat affected zone**
- Weldability of heat resisting steels and the choice of welding technique. (B21). 469055
- materials testing**
- Development of electroinductive means for checking the depth of nitrated layer in steel products. (B21). 493887
- mechanical properties**
- Effect of heat treatment conditions on mechanical properties of Cr-Ni-Mo-V-steel for reactor vessel production. (B22). [Data] 493915
- Joining technology development summary, 189a OH024. (B21, E35). 481774
- Overview of U.S. efforts directed towards development of mechanical properties data in support of FBR development. (B22, E35). 460696
- 34KhN1M steel. (B22). 465653
- melting**
- Investigation into properties of high-strength basic and acid steel. (B21). 493907
- microstructure**
- Thermal aging of annealed 2 1/4 Cr-1 Mo steel. (B22; At 454, 510, and 566°C). 469211
- oxidation**
- Oxidation of ferritic steels in steam. (B15, E35). 460623
- The oxidation of 9CrMo and other steels in 6.9 MPa steam at 748 and 823 K. (B15, E35). 460621
- physical radiation effects**
- Resistance to embrittlement of welded joints of Cr-Mo-V vessel steel, produced by different welding procedures. (B25, B21). 487039
- precipitation hardening**
- Constitution and properties of CrMoNb steels for steam generator components of sodium-cooled nuclear reactors. (B22). [Data] 462917
- quantitative chemical analysis**
- Accurate determination of sulphur in steels and certain heat-resisting alloys by isotope dilution mass spectrometry. (B11). 460431
- refining**
- Steel refining with synthetic slags melted of Na₂O-containing materials. (B21). 484152
- resistance welding**
- Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
- ruptures**
- Tertiary creep behavior of annealed 2 1/4 Cr-1 Mo steel. (B22). 469210
- strain aging**
- Mechanisms of plastic deformation of alloyed steels during strain aging. (B22). 469293
- strain hardening**
- High-temperature thermomechanical treatment of alloyed steels with different carbon content. (B22). 476329
- stress corrosion**
- Constant extension rate testing for LMFBR steam generator applications. (E35, B15). 488145
- Corrosion behaviour of iron-chromium alloys used as boiler tube materials in fast reactor steam generators. (B15, E35). 460627
- Corrosion, stress corrosion cracking, and electrochemistry of the iron and nickel base alloys in caustic environments. Progress report, March 1, 1978-February 28, 1979. (B15). 460629
- The effect of sensitisation on the stress corrosion resistance of 9%Cr 1%Mo steel. (B15, B21, E35). 460626
- Review of waterside performance of 9Cr1Mo boiler tube material. (B15, E35). 462808
- Stress corrosion resistance of 9Cr1Mo steel in boiler salt concentrates. (B15, E35). 460610
- Stress corrosion studies for 2 1/4Cr1Mo steel. (B15, E35). 460622
- tensile properties**
- Analytical representation of mechanical properties data for 2 1/4 Cr-1 Mo steel. (B22). 460691
- Tensile, creep, and creep-rupture studies on 2 1/4 Cr-1 Mo steel. (B22, E35). 460724
- tubes**
- The manufacture of chromium-molybdenum steel tubes for boiler applications. (B21, E35). 460661
- The manufacture of chromium-molybdenum steel tubes for boiler applications. (B21, E35). 460662
- Manufacture of ferritic steel tubes for fast reactor steam generators. (B21, E35). 460660
- wear resistance**
- Effect of temperature on wear resistance of steel containing metastable austenite. (B22). 494014
- weldability**
- Improvement in high-alloy martensitic steel weldability. (B21). 469062
- Metallurgical aspects of the weldability of Cr-Mo stabilised ferritic steels. (B21, E35). 460658
- Weldability and joint properties of advanced carbon stabilized 2.25Cr-1Mo steel for LMFBR. (B21, E35). 460678
- Weldability of stabilized 2 1/4Cr 1Mo Nb steel for tubes of fast reactor steam generators. (B21). 490539
- welded joints**
- Austenitic/ferritic welded transition joints for high temperature application. (B21, E35). 460665
- Effect of electron beam oscillations on plasma-flux character and level in steam-dynamic channel. (B21). 493890
- Evaluation of welded joint strength for austenitic and pearlitic steels with welding defects under thermocyclic loading. (B22, B21). 469193
- Formation of the weld metal structure during electroslag Welding of low alloyed steels. (B22). 490579
- Influence of chromium on crack formation during heat treatment of welded joints in type 15Kh2NMFA steel. (B22). 460708
- Mechanical properties of transition joint materials in support of LMFBR steam generator design. (B22, E35). 460694
- On effect of some thermodeformation parameters of welding cycle on tendency of pearlitic heat-resisting steels to fracture in reheating. (B22). 494017
- Residual stresses in 2 1/4Cr1Mo welds. (B22, E35). 460710
- Resistance to deformation and rupture at low-cycle loading under dynamic strain aging conditions. (B22). 469145
- The role of phase transformations in the development of residual stresses during the welding of some fast reactor steels. (B22, E35). 460722
- Study of susceptibility to hydrogen embrittlement of welded joints of large WWER reactor vessels at different temperatures. (B22, B21). 469239
- Study of welding seam properties of heat resisting steels with the use of an experimental technique and computers. (B22, B21). 469315
- Tendency of corner welded joints to brittle fracture under creep conditions. (B22, B21). 469151
- Transition joint welding development for LMFBR steam generators. (B21, E35). 460669
- Unusual creep behavior in a commercial nickel-chromium alloy.

- (B22, E22). 472654
Welding experience with tube-to-tubesheet joints of steam generators in 2 1/4Cr-Mo stabilised ferritic steel. (B21, E35). 460656
- welding**
Features of development of flux for narrow groove welding. (B21). 493885
Welding wire for welding chromium-molybdenum steels containing of 2 to 9% Cr in a CO₂ atmosphere. (B21). 493863
- yield strength**
Thermal aging of annealed 2 1/4 Cr-1 Mo steel. (B22; At 454, 510, and 566°C). 469211
- CHROMIUM-NICKEL STEELS:**
(Steels containing Cr and Ni as main alloying elements; the Cr content is higher than Ni content.)
- abrasion**
Corrosion investigations with the help of radionuclide technology. (B15). 486787
- acoustic emission testing**
Application of acoustic emission in the study of material fracture initiation. (E17). 477095
Use of correlation between durability and parameters of acoustic emission signals for purposes of technical diagnosis. (B22, B21). 469130
- aging**
Redistribution of atoms of alloying elements in the process of aging of the KhPN5M4 and KhPN4M5K15 steels. (B22). 469124
Study of ageing of carbonless martensite of Fe-Cr-Ni-Co-Mo-Ti steels. (B22). 469122
- arc welding**
Study of electric arc welding of castings for nuclear power machine-building. (B21). 469078
- bending**
Properties of primary piping bends in light water nuclear power plants. (E32). [Data] 484955
- boron additions**
Boron effect on fabrication properties and service behaviour of complex corrosion-resistant steels. (B22). 469177
- brazed joints**
Operation reliability of brazed joints in the components of NPP hot loops. (B21, B22). 469074
- brittleness**
Low temperature materials. (B22, A17). 490561
- carbides**
Metallographic detection of carbides in the steel X 41 CrMoV 51 after different austenizing processes. (B22). 472636
- castings**
Non-metallic inclusions in ingots 4.8 t weight of the EhP679VD steel. (B21). 472606
- composite materials**
Composite materials and coatings. (B23, B21). 476359
- corrosion**
Computerized gamma-spectrometry methods for determination of low corrosion rates of multicomponent steels and alloys. (B15). 469008
Corrosion experience in B and W NSSs. (B15, E32). 468996
Corrosion investigations with the help of radionuclide technology. (B15). 486787
Experiments to study the effects of interaction of HTR helium with metals, alloys and ceramics. (B15). 486780
Material corrosion during thermal detoxitation of chemical wastes. (B15). 484122
New Fe-Cr-Mo ferritic stainless steels. (B15). 469013
- corrosion inhibitors**
Short-term selection method of corrosion inhibitors for decontamination techniques. (C54, B15). 469990
- corrosion protection**
Inhibition of anodic pitting of stainless steels by chlorate and perchlorate ions. (B15). 469003
- corrosion resistance**
Accelerated tests of stress corrosion for perforated plates. (B15). 465497
Corrosion of valve metals. (B15). 468991
Hot rolling effect on the tendency to intergranular corrosion of the 12Kh18N10T steel. (B22). 465666
Increasing of corrosion resistance of nitrated stainless steels. (B22; alloying elements: C, Cr, Ni, V, Mo, Co, Al, Cu, Si). 469181
Investigation of corrosion cracking of high-alloyed steels in the high-parameter chloride and alkali solutions. (B22, B15). 469264
Polarization effect on crack resistance of the 12Kh18N10T steel and the AT3 titanium alloy in chloride solution. (B22, B15). 493978
Removal of tears on specimen bends of the O8Kh18G8N2T steel during intercrystalline corrosion testing. (B22). 490651
Service behaviour of the O3Kh12N10MT high-strength stainless steel in hydrogen at elevated temperatures and pressures. (B22). 465657
Stainless chromium-nickel steels. Chapter I. (B15). [Data] 462798
Stainless chromium-nickel steels (stress corrosion). Chapter II. (B15). [Data] 462799
- creep**
On the high-temperature cracking resistance of metals. (B22). 469202
Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
- crystal-phase transformations**
Formation of intermetallic phases in steels of the Fe-Cr-Ni-Co-Mo system. (B22). 469226
Permanent magnetic field effect. (B22). 469222
Pulse magnetic field effect on martensite transformation. (B22). 469219
- crystallization**
Testing plant for investigation into crystallization kinetics during welding. (B22). 494005
- decontamination**
Short-term selection method of corrosion inhibitors for decontamination techniques. (C54, B15). 469990
Studies on the decontamination of chromium-nickel steel surfaces by means of ethylenediaminetetracetic acid. (C54). 463404
- elasticity**
Effect of annealing and deformation on the elasticity with textures as well as without them. (B22). 484270
- energy transfer**
Design of steel energy absorbing restrainers and their incorporation into nuclear power plants for enhanced safety. Volume 3. Evaluation of commercial steels. (B22, E22). 479433
- fatigue**
Effect of finishing treatment on the fatigue fracture character of the 1Kh17N2Sh steel and the VT3-1 titanium alloy. (B22). 469182
Influence of water on fatigue fracture kinetics of the OOKh12N3D steel. (B22). 493939
Investigation of corrosion effect of environment on fatigue crack growth rate. (B22). 493943
Low-cycle fatigue of sheet elements with "soft" surface layer. (B22). 465621
- Machine for low-cyclic fatigue test of materials at low and cryogenic temperatures. (E17, B22). 470442
Steel structure sensitivity under cyclic loading. (B22). 484227
- fracture properties**
Influence of water on fatigue fracture kinetics of the OOKh12N3D steel. (B22). 493939
Investigation of corrosion effect of environment on fatigue crack growth rate. (B22). 493943
- fractures**
On the fracture dimorphism in the local volumes of bodies with cracks. (B22). 493936
- gas tungsten-arc welding**
Kinetics of weld metal crystallization during welding with electromagnetic stirring. (B21). 486842
- grain boundaries**
Electron microscopy study of grain boundaries in iron, molybdenum and stainless steel. (B22). 476305
- grain size**
Investigation into grain boundary strengthening of steels. (B22). 469176
- grinding**
Structural transformations in 12Kh2N4A steel during band grinding. (B22). 465600
- heat treatments**
Effect of preliminary heat treatment on phase transformations and properties of the Kh15NSD2T (VNS-2) steel. (B22). 465624
Increase in efficiency of vacuum heat treatment. (B21). 493882
- impact strength**
Impact strength and deformation substructure during cold rolling of stainless steels. (B22). 484220
- impurities**
Surface segregation of boron in nitrogen-strengthened stainless steel. (B22). 490640
- intergranular corrosion**
Influence of stressed state of steel-10Kh17N13M3T on the rate of intergranular corrosion. (B15). 469001
- internal friction**
Temperature dependence of internal friction of the O9Kh15N8Yu steel. (B22). 484231
- laser welding**
Effect of metal roughness on fusion depth in impulse laser welding. (B21). 493862
- martensite**
Martensite brittleness. (B22). 484249
- materials testing**
Development of electroinductive means for checking the depth of nitrated layer in steel products. (B21). 493887
Machine for low-cyclic fatigue test of materials at low and cryogenic temperatures. (E17, B22). 470442
- mechanical properties**
Effects of air melting on Fe/0.3/3Cr/0.5Mo/2Mn and Fe/0.3C/3Cr/0.5Mo/2Ni structural alloy steels. (B21, B22). 493899
Structure and resistance to thermal embrittlement of the low-alloy heat-treatable 10KhN1M steel. (B22). 465574
- melting**
Melting of corrosion-resistant steel of martensite class with given phase composition. (B21). 484139
Production of chromium-nickel corrosion resistant steel with low-nitrogen content. (B21). 484142
- metallography**
Metallographic detection of carbides in the steel X 41 CrMoV 51 after different austenizing processes. (B22). 472636
Method for revealing structure heterogeneity in maraging steels. (B22). 493924
- microstructure**
Effects of air melting on Fe/0.3/3Cr/0.5Mo/2Mn and Fe/0.3C/3Cr/0.5Mo/2Ni structural alloy steels. (B21, B22). 493899
Review of overlay welding procedures for light water nuclear reactor pressure vessels. (B21, E22, B22). 460663
Structure of steels after rapid plastic deformation. (B22). 494016
- nitridation**
Nitridation of stainless martensitic steels in the metastable state. (B22). 465612
Nitridation of steels in nitrate salt melts. (B22). 469234

- nondestructive testing**
Review of overlay welding procedures for light water nuclear reactor pressure vessels. (B21, E22, B22). 460663
- oxidation**
A study of the initial oxidation of chromium-nickel steel by SIMS. (A13). 459786
- passivation**
Investigation of self-passivation of Kh18N10-type steels in boiling diluted nitric-chloride solutions. (B15). 469006
- phase studies**
Electron microscopy investigation of carbides and nonmetallic inclusions in stainless chromium-nickel steel. (B22). 494015
Phase composition and properties of the deformed 12Kh18N10T steel after long-term heatings. (B22). 465654
- physical radiation effects**
Helium blistering for large irradiation doses. (B25). 487012
Influence of cold work on the in-pile stress rupture strength of 16 chromium-16 nickel-niobium austenitic stainless steels. (B25, E35). 469416
Material study of the BOR-60 shim rod thimble irradiated with 1.6×10^{22} n/cm² (E > 0.1 MeV). (B25). 465731
Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
Steel. (B22). 490556
- pitting corrosion**
Effect of heat treatment on pitting corrosion of austenitic Cr-Ni-Mo steels in sodium chloride solution. (B15, B22). 472565
- plasma arc welding**
Operation reliability of plasma arc-welded joints for NPP pipings. (B21, B22). 469052
- rare earth additions**
REM effect on nonmetallic inclusion composition and heat resistance in an austenitic steel. (B22). 493944
- reactor materials**
Characterization of the material used in the project 'stress corrosion cracking in austenitic material for nuclear power reactors'. CNIITMASH/STU. (B21). [Data] 462844
- resistance welding**
Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). 460659
- rods**
Thermomechanical hardening of round corrosion resistance steel bar. (B22). 493973
- rolling**
Effect of warm rolling conditions and lubricating-cooling composition on the tube surface quality. (B21). 490543
- segregation**
Surface segregation of boron in nitrogen-strengthened stainless steel. (B22). 490640
- specifications**
Steel. (B22). 490556
Steels for screws and nuts with larger dimensions for application as components in the primary circuit of nuclear power generating plants at moderately increased temperatures. (E22, B21, B22). 477136
- stress corrosion**
Stress corrosion cracking in austenitic materials for nuclear reactors. (B22). [Data] 460744
- submerged arc welding**
Development of automatic submerged arc welding with deep narrow groove weld for K-500-65/1500 and K-1200-240/3000 turbine rotors for nuclear and thermal power plants. (B21). 469048
- tensile properties**
Effect of improved purity of the 15KhNMFA type steel on resistance to weakening during tempering. (B22). 494023
Effect of initial decomposition stages on strengthening and embrittlement of a martensitic stainless steel. (B22). 465637
Effect of thermomechanical treatment followed by ageing on structure and properties of a two-phase stainless steel. (B22). 469178
- Low temperature materials. (B22, A17). 490561
Magnetic treatment effect on mechanical properties of steels and alloys. (B22). 469221
Structure and mechanical properties of metastable chromium-manganese steels after deformation by tension. (B22). 484269
- titanium additions**
Energy dissipation and hardness of maraging steels with titanium additions. (B22). 465609
- tubes**
Efficiency of tube production of steels alloyed with rare earths. (B21, B22). 469049
- welded joints**
Effect of aluminium and silicon on carburization of high-alloy welds. (B22). 494045
Effect of temper temperature and temper time on stress relaxation of the Cr-Ni-Mo-V steel at reactor vessel fabrication. (B22, B21). 493916
Forecast of tendency to long term hot embrittlement of austenitic-ferritic weld metal. (B22). 486907
Influence of ultrasonic treatment on resistance of welded joints of high-strength steels to cold cracking during welding. (B21, B22). 486857
Mechanical properties of high-alloyed welds with defects at cryogenic temperature. (B22). 460728
A new method for investigation of fusion zone in welding of steels and alloys. (B22). 486928
Nitrogen effect on the service behaviour of austenitic weld metal deposited on a chromium-nickel steel. (B22). 486945
Prevention of defect formation during electron beam welding of type VNS2 steel. (B21). 486836
Prevention of welded joints porosity during welding of austenitic steels by high-effective electrodes. (B21). 493880
Production experience of welding of VNC2 steel. (B21). 486839
Residual austenite in welded joints of low-carbon low-alloy structural steels. (B22). 494041
Structure formation in weld metal during welding with magnetic stirring. (B21). 493870
Testing technique of welded joint resistance to delayed fracture. (B22). 494036
Welding of the 45G17Yu3 steel with the 12Kh18N10T and the VS13sp using powder wire. (B21). 465545
- welding**
Review of overlay welding procedures for light water nuclear reactor pressure vessels. (B21, E22, B22). 460663
Welding of the 03Kh12N10MT high-tensile cold resisting steel. (B21). 465562
- wettability**
Phase composition and wettability of aluminosilicate non-metallic inclusions with steel melts. (B22, B21). 465659
- CHROMIZING:**
See *DIFFUSION COATING*
- CHROMOSOMAL ABERRATIONS:**
See also *CHROMOSOME BREAKAGE*
- acute irradiation**
Dose-response of reciprocal translocation yields after acute gamma irradiation in rats. (C14). 466087
Genetic radiosensitivity in rabbits. I. Dose effects for reciprocal translocation yields following spermatogonial gamma-irradiation. (C14). 466132
- biological dosimeters**
Chromosome analysis as a biological dosimeter in cases of acute nonuniform external exposure to cesium 137. (C15). 466165
Unstable chromosomal aberrations in PHA-stimulated cultures of human peripheral lymphocytes and bone-marrow cells at late terms after whole body exposure. (C15). 463211
- biological indicators**
Doses in radiation accidents investigated by chromosome aberration analysis. (C51, C15). [Data] 473193
Status of human chromosome aberrations as a biological radiation dosimeter in the nuclear industry. (C15, C21). 469682
- biological radiation effects**
Chromosome aberration studies and microdosimetry with radiations of varying quality. (C11). [Data] 460970
Chromosome aberrations in human lymphocytes induced by photon and electron radiations, and the sublesion interaction model. (C11). [Data] 461007
Microdosimetry and chromosomal aberrations for monoenergetic neutrons. (C11, C55). [Data] 460967
Study on the cytogenetic activity of freshly irradiated potatoes. (C43). 476646
UV-induced chromatid aberrations in two cell linear of Chinese hamster with different repair activity. (C11). 481986
- biological repair**
Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- boron 11 beams**
Damage and postradiation repair of mammalian cell chromosome apparatus after exposure to radiation with varying LET. (C11, C14). 465934
- carbon 12 beams**
Damage and postradiation repair of mammalian cell chromosome apparatus after exposure to radiation with varying LET. (C11, C14). 465934
- chromatin**
Influence of different chromatin fractions and dna preparations from these fractions on the incidence of chromosomal aberrations in myelocaryocytes of rats. (C14). 484525
- chronic irradiation**
Adeturone effects under prolonged irradiation conditions. (C14). 463153
Cytogenetic effects of prolonged irradiation in animals. (C14). 466013
Genetic radiosensitivity in rabbits. II. Dose-rate effects for reciprocal translocation yields following spermatogonial irradiation. (C14). 463189
Radiosensitivity of wild rodent species populations dwelling in areas of increased environmental radioactivity. (C21). 463236
- comparative evaluations**
Comparison of bone-marrow and germ-cell chromosomal aberrations in irradiated rabbits. (C14). 463115
Differences in cytogenetic response to radiation between redbacked mice from geographically distinct populations. (C14). 465985
- diagnostic techniques**
Quantitative computer-aided detection of symmetrical chromosome exchanges in subjects with higher radiation exposures. (C15). 466162
- distribution**
Radiation induced chromosome aberrations and the poisson distribution. (C11). 476503
- dna**
Influence of different chromatin fractions and dna preparations from these fractions on the incidence of chromosomal aberrations in myelocaryocytes of rats. (C14). 484525
- fractionated irradiation**
Some radioprotective action patterns in low level exposure of plant seeds to ionizing radiation. (C13). 463078
- genetic radiation effects**
Sensitivity of human peripheral lymphocyte chromosomes to various X-ray doses and subsequent storage in Plexiglass or glass

- containers. (C11). 494264
- helium 4 beams**
- Damage and postradiation repair of mammalian cell chromosome apparatus after exposure to radiation with varying LET. (C11, C14). 465934
- low dose irradiation**
- The low-level shape of dose response for chromosome aberrations. (C11). [Data] 481997
- Somatic cell genetics of uranium miners and plutonium workers. A biological dose-response indicator. (C15). [Data] 479891
- natural radioactivity**
- Cytogenetic investigation of people in Finland using household water with high natural radioactivity. (C21, B32, C15). 487310
- Hepatocyte mitotic activity levels and polymorphism in rodents dwelling in normal or high natural radioactivity areas. (C14). 469650
- neon 22 beams**
- Damage and postradiation repair of mammalian cell chromosome apparatus after exposure to radiation with varying LET. (C11, C14). 465934
- neutrons**
- Chromosome aberrations induced in human lymphocytes by radiation from ²⁵²Cf. (C15). 463208
- Effects of low-level occupational neutron exposures on nature and frequency of chromosomal aberrations in cultured peripheral lymphocytes. (C15). 466175
- oxygen enhancement ratio**
- Minimum gamma-radiation exposure and oxygen concentration to produce post-irradiation oxygen-enhancement of damage in barley seeds. (C13). 494286
- patients**
- Peripheral lymphocyte chromosomal aberrations in children exposed to radiation during cardiac catheterization. (C15). 463200
- personnel**
- Cytogenetic study of peripheral lymphocytes from N P Kozloduj personnel exposed to chronic irradiation. (C15). 463210
- Effects of low-level occupational neutron exposures on nature and frequency of chromosomal aberrations in cultured peripheral lymphocytes. (C15). 466175
- post-irradiation therapy**
- Study of potential chromosome structure changes, gamma-ray induced or occurring spontaneously, in dry crepis seeds. (C13). 463097
- radiation doses**
- Chromosomal estimation of radiation effects in man. (C11). 481987
- radiation effects**
- Assessing chemical mutagens: the risk to humans. (C11). [Data] 487172
- Effect of tumor promoters, protease inhibitors, and repair processes on x-ray-induced sister chromatid exchanges in mouse cells. (C11). 487184
- Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001
- Genetic control of chromosome breakage and rejoining in *Drosophila melanogaster*: spontaneous chromosome aberrations in X-linked mutants defective in DNA metabolism. (C14; X and uv radiation). [Data] 472951
- Influence of testicular microanatomy on the potential genetic dose from internally deposited ²³⁹Pu citrate in Chinese hamster, mouse, and man. (C21; Measurements in mice and hamsters of dose distributions used in calculations for man based on measured anatomical features of human testes). 476606
- Interspecific comparisons of the sensitivity to chromosome aberration production by x rays. (C15, C14; Comparative in vitro radiosensitivity of leukocyte chromosomes from mice to man). 469686
- Monitoring environmental exposures with semen assays. (C14; Mice). 476546
- Mutagenesis and Teratogenesis Section. (C14; X radiation, gamma radiation). 472939
- Natural radioactivity in Southwest France and its possible genetic consequences for mammals. (C14, B31; Incidence of chromosomal aberrations in lymphocytes and spermatocytes of rabbits and mice, respectively). [Data] 472964
- New trends and techniques in chromosome aberration analysis. (C15). 461064
- Origin of meiotic nondisjunction in *Drosophila* females. (C14). 469636
- Position effects at the hairy locus in *Drosophila melanogaster*. (C14; X radiation). 469640
- Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- Some thoughts on the nature of chromosomal aberrations and their use as a quantitative end-point for radiobiological studies. (C11). 460998
- Status of human chromosome aberrations as a biological radiation dosimeter in the nuclear industry. (C15, C21). 469682
- Therapy-related leukemia. A pancytopenia. (C15, C63, C64). 487249
- radioprotective substances**
- Influence of some chemical radioprotective agents on in vitro gamma-irradiated human peripheral blood lymphocytes. (E11). 482546
- Opportunities for delayed protection of chromosomes against radiation. (C13). 465969
- response modifying factors**
- Modification of chromosomal radiation damage as a function of time of caffeine exposure. (C13). 463080
- storage**
- Effect of blood storage and nutrient medium on the yield of chromosome aberrations under subsequent X-irradiation. (C11). 469585
- On the interrelation between heat and storage in modification of X-ray injury to *Crepis* seeds. (C13). [Data] 463081
- strontium 90**
- Genetic effects of beta-radiation exposure in vegetating barley plants. (C13). 465959
- CHROMOSOME ABERRATIONS:**
- See *CHROMOSOMAL ABERRATIONS*
- CHROMOSOME BREAKAGE:**
- bioassay**
- Applications of a simple Giemsa-staining method in the micronucleus test. (C14). 461038
- genetic control**
- Genetic control of chromosome breakage and rejoining in *Drosophila melanogaster*: spontaneous chromosome aberrations in X-linked mutants defective in DNA metabolism. (C14; X and uv radiation). 472951
- ultraviolet radiation**
- Induction of chromosome shattering by the synergistic action of ultraviolet light and caffeine: A quantitative evaluation. (C11). 484437
- UV microirradiation of V-79 cells and posttreatment with caffeine. The influence of the distribution of photolesions on the induction of chromosome shattering. (C11). 484438
- CHROMOSOME EXCHANGES:**
- See *CHROMOSOMAL ABERRATIONS*
- CHROMOSOME FRAGMENTS:**
- See *CHROMOSOMAL ABERRATIONS*
- CHROMOSOMES:**
- See also *ACROCENTRIC CHROMOSOMES; DICENTRIC CHROMOSOMES; HETEROCHROMOSOMES; RING CHROMOSOMES*
- biological radiation effects**
- Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001
- Ionizing radiation damage to the folded chromosome of *Escherichia coli* K-12: repair of double-strand breaks in deoxyribonucleic acid. (C12; Gamma radiation). [Data] 487201
- Ionizing radiation damage to the folded chromosome of *Escherichia coli* K-12: sedimentation properties of irradiated nucleoids and chromosomal deoxyribonucleic acid. (C12; Gamma radiation). [Data] 487200
- Nuclear thread bridging the sister cells prior to radiation-induced cell fusion. (C11; X rays; HeLa cells; marsupial kidney cells). 479778
- delayed radiation effects**
- Therapy-related leukemia. A pancytopenia. (C15, C63, C64). 487249
- gamma radiation**
- Isolabelling is a radiation-induced phenomenon. (C11). 460982
- molecular structure**
- A simple autoradiographic method for investigating long range chromosome substructure: size and number of DNA molecules in isolated nucleoids of *Escherichia coli*. (C31). [Data] 491078
- near ultraviolet radiation**
- Pattern of ultra-violet-light-induced repair in metaphase and interphase chromosomes. (C11). [Data] 463040
- radiation effects**
- Abstracts of the tenth annual meeting of the Korean Nuclear Society (II-1). (C11). 469588
- radiosensitivity**
- Interspecific comparisons of the sensitivity to chromosome aberration production by x rays. (C15, C14; Comparative in vitro radiosensitivity of leukocyte chromosomes from mice to man). 469686
- CHROMOSPHERE:**
- Quiet photosphere and chromosphere. (A15; Illustrated glossary). 460025
- energy transfer**
- Chromospheric and coronal heating by sound waves. (A15). 467746
- oscillations**
- Chromospheric oscillations observed with OSO 8. III. Average phase spectra for Si II. (A15). 485941
- Chromospheric oscillations observed with OSO 8. I. Basic measurements and analytical methods. (A15). 485940
- Chromospheric oscillations observed with OSO 8. II. Average power spectra for Si II. (A15). 485839
- photon transport**
- Non-LTE resonance line polarization in the absence of magnetic fields. (A15). 475390
- radiation heating**
- Soft X-ray emission and chromospheric flares. (A15). 460092
- radiative cooling**
- Acoustic dissipation and H⁻ radiation in the solar chromosphere. II. (A15). 464599
- rotation**
- Chromospheric rotation. I. (A15). 467742
- Solar rotation, 1966-1978. (A15). 483519
- shock waves**
- The structure of the turbulent shock wave propagating in the solar atmosphere across the magnetic field. (A15). 460148
- solar activity**
- Chromospheric activity observed in H α and D δ . (A15). 478284
- solar granulation**
- On the formation of a quiet solar chromosphere structure. (A15). 478280

- solar radio bursts**
Chromospheric activity observed in H α and D β . (A15). 478284
sound waves
Chromospheric and coronal heating by sound waves. (A15). 467746
star models
Semiempirical model of the upper flare chromosphere. (A15). 478286
Structure of the solar transition zone and lower corona. (A15). 489486
- ultraviolet spectra**
Chromospheric oscillations observed with OSO 8. I. Basic measurements and analytical methods. (A15). 485940
Chromospheric oscillations observed with OSO 8. III. Average phase spectra for Si II. (A15). 485941
Chromospheric oscillations observed with OSO 8. II. Average power spectra for Si II. (A15). 485839
- CHRONIC IRRADIATION:**
biological models
Paramecium aurelia as a cellular model used for studies of the biological effects of natural ionizing radiation or chronic low-level irradiation. (C12). 484490
biological radiation effects
Submicroscopic response of tissues of different radiosensitivity to long-term chronic effect of gamma radiation. (C14). 484502
chromosomal aberrations
Cytogenetic effects of prolonged irradiation in animals. (C14). 466013
delayed radiation effects
Delayed effects in dogs given chronic exposure to low-level gamma-ray doses. (C14). 466052
dose-response relationships
Comparison of effects of continuous and fractionated gamma irradiation. (C14). 484539
Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346
radiosensitivity
Plant seed radioresistance in chronically irradiated and non-irradiated natural populations. (C13). 465956
reproduction
Effects of continuous gamma radiation on the reproductivity of mice. (C14). 482040
risk analysis
New radiobiological findings bearing on the 1977 ICRP recommendations. (C14, C15; Sensitivity of mouse and monkey prenatal oocytes to chronic, low-dose, tritium exposure). [Data] 479821
simulation
Cell response to chronic irradiation-modeling and simulation studies. (C11; X radiation). [Data] 472926
survival curves
Evaluation of protracted low dose rate irradiation from an acute dose survival curve. (C15; Short-lived radioisotope implants used in radiotherapy). 469702
- CHRONIC RADIATION EFFECTS:**
See DELAYED RADIATION EFFECTS
- CHUBU-1 REACTOR:**
See HAMAOKA-1 REACTOR
- CINNAMIC ACID:**
chemical radiation effects
Radiation-induced grafting polymerization by the anionic mechanism. (B14). [Data] 490480
- CIR REACTOR:**
See CIRUS REACTOR
- CIRCADIAN VARIATIONS:**
See DAILY VARIATIONS
- CIRCUIT BREAKERS:**
testing
33-GVA interrupter test facility. (A14). 489298
- CIRCUITS (ELECTRONIC):**
See ELECTRONIC CIRCUITS
- CIRCULATION (BLOOD):**
See BLOOD CIRCULATION
- CIRUS REACTOR:**
A standard fission neutron irradiation facility. (E36). 470795
calandrias
Physics safety analyses for plugging of a calandria tube in CIRUS reactor. (C52). 482230
criticality
A slope method for prediction of CIRUS critical heights during xenon transients. (E21, E36). 480570
in pile loops
Operating experience with high temperature high pressure in-pile water loop. (E36, E34). 470791
neutron flux
Slow neutron flux extrapolation distances in R-5 and CIRUS reactors. (E21, E36). 480560
reactor cooling systems
Chemistry of primary cooling water system of CIRUS reactor operating experiences. (E36). 470798
reactor cores
Possible physics modifications to CIRUS reactor core for improved reactor utilization. (E36, E21). 480726
reactor fueling
Possible physics modifications to CIRUS reactor core for improved reactor utilization. (E36, E21). 480726
reactor kinetics
A slope method for prediction of CIRUS critical heights during xenon transients. (E21, E36). 480570
- reactor safety**
Physics safety analyses for plugging of a calandria tube in CIRUS reactor. (C52). 482230
secondary coolant circuits
Experience with sea water system in CIRUS. (E36). 470793
slow neutrons
Slow neutron flux extrapolation distances in R-5 and CIRUS reactors. (E21, E36). 480560
tubes
Failure of a stainless steel line carrying helium to CIRUS reactor vessel tube sheet. (E36). 470788
water chemistry
Chemistry of heavy water and helium systems of CIRUS reactor. (E36). 470796
Chemistry of primary cooling water system of CIRUS reactor operating experiences. (E36). 470798
- CISTRONS:**
See GENES
- CITIES:**
See URBAN AREAS
- CITRATES:**
biological effects
Experimental studies of the use of DTPA and other agents to limit the systemic burden of plutonium after wound contamination. (C21; Nicotinoxyhydroxamic acid; para-butoxyphenylacetohydroxamic acid; calcium N-acetyl-6-amino-hexanoate). [Data] 479939
radiopharmaceuticals
⁶⁷Ga-citrate uptake by the parotid glands in sarcoidosis. (C62, C21; Effectiveness for differential diagnosis). 494569
Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
- CITRIC ACID:**
potatoes
Role of citric acid in the after-cooking darkening of γ -irradiated potato tubers. (C43). 487330
- CITROVORUM FACTOR:**
radioassay
Radiochemical assay for N³-formyltetrahydrofolic acid (citrovorum factor) in serum and urine. (C62). 476805
- CIVIL DEFENSE:**
shelters
Shelter construction and radiation protection. (C54). 487634
underground
Rules of procedure for the construction of public refuge in connection with underground constructions (multi-purpose constructions). (C54, E14). 466348
- CLADDING:**
(For the process only.)
corrosion
The texture of corrosion layers on zirconium tubing. (E23). 491783
deformation
MABEL-1. A code to analyse cladding deformation in a loss-of-coolant accident. (E32). 463628
delayed neutron analysis
Effect of measurement conditions on the design of delayed-neutron detector units. (E23, E32). 477139
failed element detection
Effect of measurement conditions on the design of delayed-neutron detector units. (E23, E32). 477139
zircaloy
Zircaloy performance in water reactors. (E32, E33). 491905
zirconium alloys
The texture of corrosion layers on zirconium tubing. (E23). 491783
- CLADDING-FUEL INTERACTIONS:**
See FUEL-CLADDING INTERACTIONS
- CLAMS:**
See MOLLUSCS
- CLASSICAL MECHANICS:**
angular momentum
Chapter 10. Composition of kinetic momenta. (A11). 480959
atom-atom collisions
Current trends in atomic collision experiments. (A12). 459743
charge carriers
On rotating charged dust in general relativity. (A11). 492438
dusts
On rotating charged dust in general relativity. (A11). 492438
hamiltonian function
App. 3. Lagrangian and Hamiltonian in classical mechanics. (A11). 480965
lagrangian function
App. 3. Lagrangian and Hamiltonian in classical mechanics. (A11). 480965
numerical solution
Application of Hamilton's principle to the study of the anharmonic oscillator in classical mechanics. (A11). 488611
oscillators
Application of Hamilton's principle to the study of the anharmonic oscillator in classical mechanics. (A11). 488611
- CLAYS:**
See also CLINOPTILOLITE; ILLITE; KAOLIN
Endochronic constitutive model for general hysteretic response of soils. Final report. (B24). 472725
adsorption
Chemistry of nuclear resources, technology, and waste. (B13, B31, B11). 460553
Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1 - December 31, 1978. (B32, B31). [Data] 472851
Radionuclide sorption studies on abyssal red clays. (E52). [Data] 480874

- Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52, B31). [Data] 492258
- Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52). 461939
- radiometric gages**
- Radiometric density gaging in ore dressing and alumina production. (D22). 476867
- radionuclide migration**
- Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1-December 31, 1978. (B32, B31). [Data] 472851
- tracer techniques**
- Application of nuclear methods in the Hungarian alumina industry. (D22, D24). 476851
- CLEANING:**
- See also *AIR CLEANING; DECONTAMINATION; SURFACE CLEANING*
- CLEARANCE:**
- See also *BLOOD-PLASMA CLEARANCE; EXCRETION; LUNG CLEARANCE; RENAL CLEARANCE*
- CLEARANCE (RENAL):**
- See *RENAL CLEARANCE*
- CLEBSCH-GORDAN COEFFICIENTS:**
- Clebsch-Gordan coefficients for the holomorphic discrete series. (F51). 485243
- Coefficients of Clebsch-Gordan for the holomorphic discrete series. (A11). 488622
- Computer programs for the reduction of Kronecker products and symmetrized Kronecker powers of space group irreducible representations. (F51). 485239
- Universal generating function for the Clebsch-Gordan coefficients. (A11). 485367
- harmonic oscillators**
- Conversion factors for the Cartesian, polar and cylindrical wave functions of isotropic oscillator. (A11). 474502
- su-4 groups**
- The Clebsch-Gordan coefficients of SU(4). (A11). 482990
- CLEO STELLARATOR:**
- beam injection heating**
- Neutral injection heating of Cleo Stellarator - Theory and experiment. (A14). 464400
- CLIMATES:**
- data processing**
- Testing and documentation of programs used to transform climatological precipitation data to a geographically gridded format. (F30, C52). 480928
- isotope dating**
- Climatic changes in Antarctica during the last 30,000 years. (B31). 494203
- CLINCH RIVER BREEDER REACTOR:**
- Welding the Clinch River Breeder Reactor core support structure. (B21, E35). 472605
- after-heat removal**
- Testing of the CRBRP Direct Heat Removal Service in a 1/21 scale model. (E35). 495013
- fuel element clusters**
- Sensitivity theory for reactor thermal-hydraulics problems. (E35, E21). 466731
- heat exchangers**
- Elastic-plastic-creep analysis of shells. (E35). 488159
- neutron detectors**
- Theoretical evaluation of ex-vessel monitoring for initial fuel loading of a liquid metal fast breeder reactor. (E35). 492000
- pipes**
- Design considerations for CRBRP heat transport system piping operating at elevated temperatures. (E35). 495017
- primary coolant circuits**
- Design considerations for CRBRP heat transport system piping operating at elevated temperatures. (E35). 495017
- Evaluation of the influence of seismic restraint characteristics on breeder reactor piping systems. (E35). 488158
- pumps**
- Minimizing unbalance response of the CRBRP sodium pumps. (E35). 491976
- radioactive effluents**
- Summary of the ALARA nature of design effluents from the Clinch River Breeder Reactor plant. (C52, E35). 461205
- reactor components**
- Empirical method to calculate Clinch River Breeder Reactor Plant (CRBRP) inlet plenum transient temperatures. (E35). 480687
- Inelastic analysis of the Upper Internals Structure for the Clinch River Breeder Reactor Plant. (E35). 488136
- Structural analysis of the Upper Internals Structure for the Clinch River Breeder Reactor Plant. (E35). 488144
- reactor core disruption**
- Structural response of 1/20-scale models of the Clinch River Breeder Reactor to a simulated hypothetical core disruptive accident. Technical report 4. (C52, E35). 476709
- reactor fueling**
- Theoretical evaluation of ex-vessel monitoring for initial fuel loading of a liquid metal fast breeder reactor. (E35). 492000
- reactor lattice parameters**
- Theoretical evaluation of ex-vessel monitoring for initial fuel loading of a liquid metal fast breeder reactor. (E35). 492000
- reactor materials**
- Strain-rate effects on the elevated-temperature behavior of ERNiCr-3 weld metal. (B22, E35). 460725
- reactor vessels**
- Structural response of 1/20-scale models of the Clinch River Breeder Reactor to a simulated hypothetical core disruptive accident. Technical report 4. (C52, E35). 476709
- specifications**
- Evaluation of the Clinch River Breeder Reactor Plant design. (E35). 473963
- steam generators**
- Welding for the CRBRP steam generators. (E35). 480706
- transients**
- Feedback control systems for non-linear simulation of operational transients in LMFRs. (E24, E35). 461652
- CLINOPTILOLITE:**
- extraction columns**
- Equilibrium and capacity data of clinoptilolite. (B12). [Data] 475974
- CLIPPING CIRCUITS:**
- See *PULSE SHAPERS*
- CLONE CELLS:**
- genetic radiation effects**
- Effect of mitomycin C and ⁶⁰Co γ -irradiation on the replication of SV40 in cell lines of varying permissivity for SV40 replication. (C11). 487186
- lethal irradiation**
- Rescue of marker phenotypes: effects of BUdR sensitization, hypoxia and high LET. (C11; Thymidine kinase). 494255
- mitomycin**
- Effect of mitomycin C and ⁶⁰Co γ -irradiation on the replication of SV40 in cell lines of varying permissivity for SV40 replication. (C11). 487186
- neoplasms**
- The role of clonogenic cells in reaction of considerable neoplasms to irradiation and chemotherapeutics effect. (C11). 479769
- radiosensitivity**
- Neoplasm radioresistance depending on clone cells. (C11). 479752
- survival curves**
- Establishment of ultraviolet-resistant cells from the highly sensitive human clonal cell line, RSb. (C11). 484466
- Rescue of marker phenotypes: effects of BUdR sensitization, hypoxia and high LET. (C11; Thymidine kinase). 494255
- CLOSE-IN FALLOUT:**
- See *LOCAL FALLOUT*
- CLOSED CONFIGURATIONS:**
- See also *OCTUPOLAR CONFIGURATIONS; QUADRUPOLE CONFIGURATIONS*
- CLOSED PLASMA DEVICES:**
- See also more specific entries as listed in the *INIS Thesaurus*.
- baking**
- Thermonuclear device. (A14; auxiliary heater). 489359
- electron rings**
- Precession and kink motion of long astron layers. (A14). 464403
- high-beta plasma**
- On the scaling of magnetic plasma confinement under classical conditions. (A14). 478109
- magnet coils**
- Toroidal coil. (A14). 489223
- plasma instability**
- High mode number stability of an axisymmetric toroidal plasma. (A14). 467525
- Precession and kink motion of long astron layers. (A14). 464403
- power supplies**
- Power source for thermonuclear device. (A14). 471732
- switches**
- Thermonuclear device. (A14). 471731
- toroidal configuration**
- Process and system for plasma heating. (A14). 483319
- CLOSED-CYCLE COOLING SYSTEMS:**
- hydraulics**
- Hydraulic problems in cooling water recirculating systems of nuclear power plants. (E22). 482695
- specifications**
- Conceptual designs for two reject heat systems for a Brayton closed-cycle converter. (E38; Space power reactors). 488212
- thermal insulation**
- Heat insulation for hot gas flows with fast pressure changes. (E33). 470713
- CLOSED-CYCLE MHD GENERATORS:**
- See also *LIQUID-METAL MHD GENERATORS*
- Magnetohydrodynamic power generation. (A16). 462492
- reviews**
- Magnetohydrodynamic power generation. (A16). 489670
- CLOSTRIDIUM:**
- See also *CLOSTRIDIUM BOTULINUM*
- CLOSTRIDIUM BOTULINUM:**
- biological radiation effects**
- Bacterial spores: biophysical aspects of recovery from radiation injury. (C12; γ rays; Clostridium botulinum). 487193
- biological variability**
- Relation between radiation resistance and salt sensitivity of spores of five strains of Clostridium botulinum types A, B, and E. (C12). 469614
- radiosensitivity**
- Relation between radiation resistance and salt sensitivity of spores of five strains of Clostridium botulinum types A, B, and E. (C12). 469614
- toxicity**
- Toxin production by Clostridium Botulinum type B (proteolitic) in radurized raw fish. (C43). 469858
- CLOSURES:**
- controlled atmospheres**
- Nuclear reactor equipped with a fluid conduction system without mechanical joints between annular interfaces. (E22). 466615
- seals**
- Core disruptive accident margin seal. (C52, E35; Patent). 487490
- Freeze seal device for fast reactor shielding plug. (E35). 477289

- Maintenance device for liquid seals in nuclear reactors. (E35). 466733
- Maintenance system for immersed seals, specifically for nuclear reactors. (E35; LMFBR rotating closure plugs). 473982
- Thermal shielding system intended for the upper slab of a nuclear reactor. (E22). 463572
- CLOTHING:**
See also *GLOVES; PROTECTIVE CLOTHING*
- CLOUD CHAMBERS:**
See also *DIFFUSION CHAMBERS*
- Cloud chambers: expansion and diffusion. (E41). 492158
- Low pressure cloud chamber studies. (C11, C55). 463045
- Low pressure cloud chamber studies. 1. Methods of analysis of ionisation distributions. (C11, C55). [Data] 465879
- CLOUDS:**
(Limited to clouds in the earth atmosphere; for interstellar clouds see *COSMIC DUST or COSMIC GASES*)
See also *RADIOACTIVE CLOUDS*
- Three-dimensional transfer of solar radiation in clouds. (A15; Geometry, Monte Carlo and analytic methods). 460046
- CLUSTER BEAMS:**
Energy and momentum transfer to ^3He , ^4He and nitrogen clusters subject to transverse molecular beams. (A12). 464108
- Cryopumped hydrogen cluster beam source. (A14). 459962
- Cryopumped hydrogen cluster beam source. (A14). 459962
- CLUSTER EMISSION MODEL:**
(A particle interaction model describing the emission of clusters having the potential to transfer charge from one center of mass hemisphere to the other, depending upon the rapidities of the clusters.)
- Classical microscopic description of particle cluster collisions: application to heavy ion collisions. (A33). [Data] 462617
- CLUSTER MODEL:**
Cluster model in reaction theory. (A33, A21). 464946
- Nuclear Fermidynamics and T.D-S-H.F. (A33; Nuclear structure, heavy ion reactions). 478627
- The effective surface potential for α particles and its OCM justifications. (A33). [Data] 464996
- A selfconsistent description of ^6Li in terms of four-body and body substructures. (A33). 483735
- Study of the $(\alpha, 2\alpha)$ reaction at 700 MeV. (A34). 468467
- Efimov states and bound state properties in selected nuclear and molecular three-body systems. (A33, A12). 460293
- A selfconsistent description of ^6Li in terms of four-body and two-body substructures. (A33). 483735
- Probability of excitation of high-spin states in the capture of π -mesons by nuclei. (A33). 464986
- Dependence of cluster size on inelasticity and strength of correlation on inelasticity and dispersion in rapidity in cosmic-ray interactions. (A21). 486049
- An SU(3) approach to nuclear multi-cluster problems. (A33). 472160
- SU₃ symmetry and integral kernels for nuclear cluster problems. (A33). 483763
- Time-dependent coupled-cluster approximation to nuclear dynamics. II. General formulation. (A33). 486236
- Antisymmetrized four-body wave function and coexistence of single particle and cluster structures. (A33). 478672
- On the cluster structure of wave functions in the K-harmonics method. (A33). 468415
- Analysis of surface potential by the resonating-group method. (A33). 493228
- CLUSTER MODEL (NUCLEAR):**
See *CLUSTER MODEL*
- CLUSTER MODEL (PARTICLE):**
See *CLUSTER EMISSION MODEL*
- CLUSTERS (FUEL ELEMENTS):**
See *FUEL ELEMENT CLUSTERS*
- CLUSTERS (GALAXY):**
See *GALAXY CLUSTERS*
- CLUSTERS (ION):**
See *ION PAIRS*
- CLUSTERS (SOLID):**
See *SOLID CLUSTERS*
- CLUSTERS (STAR):**
See *STAR CLUSTERS*
- CMEA:**
See *COMECON*
- CNA REACTOR:**
See *ATUCHA REACTOR*
- CNIDARIA:**
See also *CORALS*
- CNO CYCLE:**
(Astrophysical processes only.)
- Remeasurement of the low-energy cross section for the $^{15}\text{N}(p,\alpha)^{12}\text{C}$ reaction. (A34, A15). 483943
- Meridional circulation and CNO anomalies in red giant stars. (A15). 489641
- COAGULATION (BLOOD):**
See *BLOOD COAGULATION*
- COAL:**
See also *ANTHRACITE; LIGNITE*
- Energy sources 78/79. (B31). 469472
- Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- Terrestrial Ecology Section. (C52). 480073
- Burning coal causes cancer too. (C52). 469980
- Uranium in coal. (B31). [Data] 494190
- Air impact. (C52). [Data] 494391
- Aerosol sampling of an experimental stirred-bed Lurgi coal gasifier. (C52). 469948
- Aerosol sampling of an experimental fluidized bed coal combustor. (C52). 469943
- Annual rate of release of radon to the atmosphere as a result of coal combustion in the United Kingdom. (C52). 480025
- Effect of collection substrates on performance and wall losses in cascade impactors. (C52, E42). 469949
- In vitro dissolution of fluidized bed coal combustion fly ash using instrumental neutron activation analysis. (B11). 468680
- Inorganic constituents in an experimental fluidized bed coal combustor exhaust stream. (C52). 469976
- Organic characterization of effluents from fluidized bed combustion of coals. (C52). 469918
- Some operating characteristics of slit jet virtual cascade impactors. (B33, E42). 469570
- Air impact. (C52). [Data] 494391
- Determination of the porosity and density of coal-bearing rocks according to the well logs. (B31). 476469
- Application of microgamma-gamma logging to detailed study of coal beds in the Easton Donbas. (B31). 490795
- Efficiency of gamma-gamma density logging modifications in study of coal wells. (B31). 476428
- Coal gasification using nuclear power. (E33). 482776
- Intermetallic compounds as catalysts for hydrogenation of carbon oxides. (B22). 479384
- Studies of materials found in products and wastes from coal-conversion processes. (C52). 480127
- Synthetic Fuels Program. (C52). 480063
- Burning coal causes cancer too. (C52). 469980
- Nuclear assay of coal. Volume 4. Moisture determination in coal: survey of electromagnetic techniques. Final report. (B11; Determination by capacitance, microwave attenuation, and NMR techniques). 460375
- Department of Energy: some aspects of basic research in the chemical sciences. (B16, E52, B11). 486820
- Studies of materials found in products and wastes from coal-conversion processes. (C52). 480127
- Synthetic Fuels Program. (C52). 480063
- Nuclear assay of coal. Volume 7. Coal rheology and its impact on nuclear assay. Final report. (B11). 460402
- Nuclear assay of coal. Volume 6. Mass flow devices for coal handling. (B11). 460371
- Prompt continuous measurements of coal composition by nuclear methods. (D22). 494668
- Measurement of specific energy, ash and moisture in bulk coal samples by a combined neutron and gamma-ray method. (D22). 470271
- A method of measuring the ash content of coal in moving wagons. (D22). 480322
- Prompt continuous measurements of coal composition by nuclear methods. (D22). 494668
- Analysis and computerized fitting of the lineshape of the NMR powder pattern. (A13, B24; General powder pattern fitting, powder pattern fitting (two tensors), and draw a powder pattern (shift tensor), in FORTRAN IV). 459815
- NMR investigation of coal extracts. (B11). 462666
- Nuclear assay of coal. Volume 3. Determination of total hydrogen content of coal by nuclear techniques. Final report. (B11). 460395
- Analysis for radionuclides in SRC and coal combustion samples. Final report Nov 77-Jul 78. (B11). 486523

- radiometric gages**
A method of measuring the ash content of coal in moving wagons. (D22). 480322
- radiometric sorting**
Absorption method and radiometric equipment for automatic speed control of material transport from jigs in a coal washing plant. (D22). 476861
- radon 222**
Annual rate of release of radon to the atmosphere as a result of coal combustion in the United Kingdom. (C52). 480025
- solid wastes**
Earth Sciences. (B31). 479644
- weight indicators**
Nuclear assay of coal. Volume 6. Mass flow devices for coal handling. (B11). 460371
- COAL GASIFICATION:**
See GASIFICATION
- COAST:**
See SHORES
- COASTAL WATERS:**
(For use only in its geographic connotation; for the legal connotation use TERRITORIAL WATERS.)
- environmental exposure pathway**
Effect of a long-term release of plutonium and americium into an estuarine-coastal sea ecosystem. (C22, B32). 491058
- radiation monitoring**
Abundance and distribution of radionuclides discharged from a BWR nuclear power station into a marine bay. (C52, E31, B32). 476681
- radionuclide kinetics**
Particulate uranium, plutonium and polonium in the biogeochemistries of the coastal zone. (B32). [Data] 462992
- radionuclide migration**
A radionuclide study of the Clyde Sea area. (B32). 481949
Windscale radiocaesium in the Clyde Sea area. (B32). 472850
- sediments**
Effects of biological sediment mixing on the ^{210}Pb chronology and trace metal distribution in a Long Island Sound sediment core. (B32). 484365
Pu and ^{137}Cs in coastal sediments. (B31). 484353
- water pollution**
Hydrocarbon studies in Puget Sound and off the Washington coast. Progress report, March 1978 - February 1979. (C52, B32). 487436
Hydrocarbon studies in Puget Sound and off the Washington coast. Progress report, March 1977 - February 1978. (C52, B32). 487435
- COATED FUEL PARTICLES:**
- amoeba effect**
Influence of ZrC and SiC additives on the thermal migration of BISO-coated (Th,U)O₂ kernels. (E33). 466712
- carbonization**
Performance of triso-coated HTGR fissile fuel particles during in-block carbonization. (B24, B23). [Data] 472713
- cleaning**
Method and installation for countercurrent washing of solid particles, in particular nuclear fuel particles. (E23). 470563
- compacting**
Method of manufacturing a nuclear fuel rod. (E23). 491767
- configuration**
Nuclear reactor fuel element. (E33, E36). 477252
- decomposition**
HTGR fuel rod deconsolidation. (E33). 470718
- diffusion**
Use of tracers in the measurement of fission product transport in graphite. (E33, D23). 461724
- fabrication**
Effect of deposition conditions on the properties of pyrolytic SiC coatings for HTGR fuel particles. (E33, B23). 461730
A method for the preparation of uranium fuel particles by loading ion exchange resin. (E23, B16, E33). 482709
Method to manufacture fuel and breeder particles. (E33). 484971
Method to produce fuel particles. (E33). 473932
Method to produce carbon-cladded nuclear fuel particles. (E23). 482716
- The relationship between the fluidization states of model beds and high-temperature-coating beds. (E23). 473811
- failed element detection**
Detection of gas-permeable fuel particles for high-temperature gas-cooled reactors. (E33). 473939
- failures**
Failure of coated fuel particles during thermal excursion above 2,000°C. (E33). [Data] 477256
Performance of triso-coated HTGR fissile fuel particles during in-block carbonization. (B24, B23). [Data] 472713
Some calculations of the failure statistics of coated fuel particles. (E33; HTGR). 473928
- fission product release**
DASH: a multicomponent time-dependent concentration diffusion with radioactive decay program. (E33; HTGR). 488081
Effect of deposition conditions on the properties of pyrolytic SiC coatings for HTGR fuel particles. (E33, B23). 461730
Sr-90-release measurements and calculations from HTR-fuel elements. (E33). 470687
- fission products**
Fission product behavior in HTGR fuel particles made from weak-acid resins. (E33). 477264
Fission product behaviour in irradiated HTR fissile particles at high temperatures. (E33). 470690
- fluidized beds**
The relationship between the fluidization states of model beds and high-temperature-coating beds. (E23). 473811
- fuel element failure**
Failure mechanisms in high temperature gas cooled reactor fuel particles. (E33, B23). 488104
- performance**
Performance of HTGR fuel in HFIR capsule HT-33. (E33). 491940
- performance testing**
Irradiation performance of HTGR fuel in HFIR capsule HT-31. (B23). 479510
Operation and postirradiation examination of ORR capsule OF-2: accelerated testing of HTGR fuel. (E33). 473940
Postirradiation examination of recycle test elements from the Peach Bottom Reactor. (E33, B25). 470717
- physical radiation effects**
Fission product behavior in HTGR fuel particles made from weak-acid resins. (E33). 477264
Postirradiation examination and evaluation of Peach Bottom fuel test elements FTE-14 and FTE-15. (E33, B25). 473925
Postirradiation examination of recycle test elements from the Peach Bottom Reactor. (E33, B25). 470717
- pressing**
Advances in HTR fuel matrix technology. (E33). 488106
- pyrolytic carbon**
Fuel particles coated with pyrocarbon for elements of high temperature reactors. (E33, B24). 470697
- reprocessing**
Equipment to break the cladding layer of coated fuel and/or breeder particles for nuclear reactors. (B16). 484125
- spent fuels**
Fission product behaviour in irradiated HTR fissile particles at high temperatures. (E33). 470690
- surface coating**
Reviews of investigations on the coating of fuel particles. (B23, E33). 490659
- thermal stresses**
Failure mechanisms in high temperature gas cooled reactor fuel particles. (E33, B23). 488104
- vapor deposited coatings**
Method of coating items with pyrolytic carbon. (B23). 490652
- COATING (SURFACE):**
See SURFACE COATING
- COATING PROCESSES:**
See SURFACE COATING
- COATINGS:**
See also DIFFUSION COATINGS; ENAMELS; LACQUERS; LUMINOUS PAINTS; PAINTS; PROTECTIVE COATINGS; SPRAYED COATINGS; VARNISHES
- chemical composition**
Radiation hardenable coating mixture. (B14). 472520
- chemical preparation**
Radiation curable coating compositions. (B14; Patent). 486746
- chemical radiation effects**
Radiation polymerizable compositions. (B14; Patent). 460604
- fabrication**
In situ first wall coating by discharge vapor deposition. (A14). 475121
- flammability**
Flame resistant cotton fabrics prepared by radiation-initiated polymerization with vinyl phosphonate oligomer and N-methylolacrylamide. (B14). [Data] 486744
- materials testing**
Coatings for fusion reactor environments. (A14). 475084
Material surface modification for first wall protection. (A14). 459884
- performance**
Natural low Z coatings for fusion reactors. (A14). 471697
- performance testing**
Plasma-sprayed coatings for fusion reactor applications. (A14, B22). 485778
- photosensitivity**
Radiation sensitive polymeric o-nitrophenyl acetals and element. (B14; Patent). 479252
- physical radiation effects**
Ultraviolet damage resistance of laser coatings. (A14). 467641
- plating**
Ion plating. (A13). 462247
Structural studies of ion-plated metal films on plastics. (A13). 462257
- polyacrylates**
Coating material polymerized by actinic radiation. (B14). 481734
- radiation hardening**
Coating masses suitable for coating wood and wood-like materials hardenable by electron beams. (B14, D23). 486743
Preparates hardened by radiation. (D23). 487809
- radiosensitivity**
Ionizing radiation effects on technological materials. (B25). 479554
- sputtering**
Sputter ion plating. (A13). 462183
Sputtering and its applications - the present status. (A13). 462172
- thickness**
Thickness measurements on layered materials in powder form by means of XPS and ion sputtering. (A13). 477864
- COAXIAL CABLES:**
- attenuation**
Analysis of the wave impedance and the attenuation constants of a concentric line having a helical inner conductor. (E10). 491442
- electric impedance**
Analysis of the wave impedance and the attenuation constants of a concentric line having a helical inner conductor. (E10). 491442
- magnetic insulation**
Influence of nonuniform external magnetic fields and anode-cathode shaping on magnetic insulation in coaxial transmission

- lines. (E16). 491647
- performance testing**
- Qualification of coaxial and triaxial cable for nuclear instrument test. (E31, E32). [Data] 491855
- seals**
- Nuclear instrumentation cable end seal. (E35; Patent). 488125
- COBALT:**
- absorption spectroscopy**
- A comparative study of mineralization methods applied to the determination of trace metals in suspensions by atomic absorption. (B11). [Data] 493483
- Influences of the matrix effect in the sensibility of cobalt measurement by atomic absorption. (B11). 481621
- Speciation of organometallic compounds by Zeeman atomic absorption spectrometry with liquid chromatography. (B11). 472363
- activation analysis**
- Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- adsorption**
- Heats of chemisorption of O₂, H₂, CO, CO₂, and N₂ on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- catalysis**
- Cobalt way to dl-Estrone, a highly regiospecific functionalization of 2,3-bis(trimethylsilyl)estratrien-17-one. (B12). 472429
- chemical reactions**
- Cobalt way to dl-Estrone, a highly regiospecific functionalization of 2,3-bis(trimethylsilyl)estratrien-17-one. (B12). 472429
- Electron transfer. 39. Catalyzed reductions of cobalt(III) by uranium(III). (B13). 460556
- chromatography**
- Metal-ion chelation chromatography on silica-immobilized 8-hydroxyquinoline. (B11). [Data] 472357
- deformation**
- Deformation of cemented carbides. (B23). 472692
- diffusion**
- Contribution to the study of diffusion in rare earth metals and actinides. (B22). 469237
- dissolution**
- Kinetics of solution and diffusion coefficients of iron, cobalt and nickel in liquid aluminium. (B22). 469159
- electronic structure**
- Low-energy interband absorption in bcc Fe and hcp Co. (B22). 486937
- emission spectroscopy**
- Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
- Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). [Data] 490812
- grueneisen constant**
- Temperature dependence of the Anderson - Grueneisen parameter delta of Co, Ru, and Er. (B22). 479438
- halides**
- PES of high temperature vapors. VIII. Transition metal dihalides. (A10). 466990
- indium additions**
- Nuclear orientation and NMR/ON on implanted sup(114m)In in Fe and Co. (A13). 467424
- interatomic distances**
- Dependence of NMR frequency on interatomic distances in fcc cobalt monocrystals. (A13). 464131
- ion collisions**
- Target and projectile cross sections for F ions on Ti, V, Cr, Fe, and Co: 1.7 MeV/amu. (A12). 488896
- ion exchange chromatography**
- Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ion implantation**
- Production of amorphous alloys by ion implantation. (A13). 477883
- monitoring**
- EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- neutron activation analysis**
- Sulfide geochemical survey in Dawahan, Larap, Camarines Norte (Southern Luzon), Philippines. (B11). [Data] 484004
- nuclear magnetic resonance**
- Dependence of NMR frequency on interatomic distances in fcc cobalt monocrystals. (A13). 464131
- Nuclear orientation and NMR/ON on implanted sup(114m)In in Fe and Co. (A13). 467424
- proton reactions**
- Measurement and hybrid model analysis of excitation functions of proton-induced reactions with titanium, vanadium, iron, cobalt and nickel in the energy range of 10-45 MeV. (A34). [Data] 460327
- reflection**
- Low-energy interband absorption in bcc Fe and hcp Co. (B22). 486937
- solvent extraction**
- Influence of diluent on the synergic extraction of divalent cobalt by the thenoyltrifluoroacetone - tribenzylamine perchlorate system. (B12). [Data] 478886
- stacking faults**
- Estimation of stacking-fault energies in transition metals. (B22). 481835
- temperature dependence**
- Temperature dependence of the Anderson - Grueneisen parameter delta of Co, Ru, and Er. (B22). 479438
- trace amounts**
- Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). 483958
- x-ray fluorescence analysis**
- Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
- EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- x-ray spectra**
- Theory for the Lsub(2,3) soft x ray appearance spectra for the 3d transition metals. (A13). 481139
- COBALT ALLOYS:**
- See also ALLOY-HS-25; ALLOY-IN-100; ALLOY-IN-643; ALNICO ALLOYS; ASTROLOY; COBALT BASE ALLOYS; HASTELLOY X; HAYNES 25 ALLOY; INCONEL 617; INCONEL 713C; KOVAR; NIMONIC PE13; RENE 41; STELLITE; UDIMET 700; WASPALOY
- amorphous state**
- Thermal stability and electronic properties of amorphous Zr-Co and Zr-Ni alloys. (B22). 486872
- anisotropy**
- Effect of rare earth and transition metal substitution on the anisotropy of R₂Co₁₇ compounds (R = Er, Tm, Yb). (B22). 479423
- annealing**
- Reliability of brazed joints of ceramics with metal. (B21). 465548
- coercive force**
- Effect of heat treatment on temperature dependence of coercive force of SmCo₅ permanent magnets. (B23). 469370
- Giant intrinsic magnetic hardness in SmCo/sub 5-x/Cu/sub x/. (B22). 490615
- crystal lattices**
- Structural and magnetic properties of Gd(Cosub(x)Irsup(1-x))₂. (A13). [Data] 471444
- crystal structure**
- Crystal structure of R₁₀Ga₃Co₇(R=Y, La. (B12). 493604
- crystal-phase transformations**
- Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
- Magnetic properties and spontaneous distortion in TbCo₂. (A13). [Data] 471467
- curie point**
- The Curie temperatures of compounds of the heavy rare earths and yttrium with cobalt. (A13). [Data] 477953
- domain structure**
- Domain structure and remagnetization process of SmCo₅Cu heterogeneous crystals. (B22). 476318
- electrical properties**
- Zirconium alloys containing transition metal elements. (B21, B22; Patent). 476234
- enthalpy**
- Enthalpy and specific heat of a nickel - cobalt steel to 2000 K. (B22). [Data] 479458
- fabrication**
- Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846
- Ductile ordered alloys. (B22, B21, E35). 486894
- Zirconium alloys containing transition metal elements. (B21, B22; Patent). 476234
- ferromagnetic materials**
- Oxidation and domain structure of condensed iron and iron-cobalt films. (B22). 469166
- Peculiarities of magnetic state of high-anisotropy ferromagnets after large Barkhausen discontinuity. (B22). 469216
- Peculiarities of magnetic state of high-anisotropy ferromagnets after large Barkhausen discontinuity. (B22). 469216
- ferromagnetism**
- Magnetic properties of Fesub(x)Cosub(1-x)Ti and Fesub(x)Cosub(1-x)Si alloys. (B22, A13). 484167
- intermetallic compounds**
- Magnetic properties of Fesub(x)Cosub(1-x)Ti and Fesub(x)Cosub(1-x)Si alloys. (B22, A13). 484167
- Study on crystal structure and magnetic characteristics of Co₂CuCe alloy. (B22). 476244
- lattice parameters**
- Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
- magnetic materials**
- On magnetic aging of SmCo₅ magnets at high temperatures. (B22). 493996
- magnetic moments**
- Structural and magnetic properties of Gd(Cosub(x)Irsup(1-x))₂. (A13). [Data] 471444
- magnetic properties**
- Coercive force of pseudobinary R(Co/sub 1-x/Cu/sub x)/₂ compounds. (B22). 479421
- Electron structure and some peculiarities of electric and magnetic properties of Ti alloys with Co and Ni. (B22). 494030
- Enhancement of the magnetic properties of the Sm₂Cu/sub 1.6/Zr/sub 0.16/Fe/sub 3.3/Co₁₂ compound. (B22). 479368
- Itinerant metamagnetism in rare earth-transition metal compounds. (B22). 479381
- Magnetic properties and microstructures of sprayed SmCo₅ magnets exposed to intermediate temperatures. (A11). 477643
- Microstructure and magnetism in amorphous rare-earth - transition-metal thin films. II. Magnetic anisotropy. (B22). 479419

- Nature of perpendicular anisotropy in sputtered GdCo thin films. (B22). 479403
- Rare earth-cobalt permanent magnets with improved mechanical properties. (B22). 479444
- Strong rare earth cobalt quadrupoles. (E16). 480459
- Studies of magnetic alloys by diffuse neutron scattering. (A31, A13). 490007
- magnetization**
- Comments on 'Magnetic anisotropy of $\text{RE}_2(\text{Fe},\text{Co})_{17}$ detected by the singular point detection technique. (B22). 460736
- Effect of rare earth and transition metal substitution on the anisotropy of R_2Co_{17} compounds ($\text{R} = \text{Er}, \text{Tm}, \text{Yb}$). (B22). 479423
- Magnetic properties and spontaneous distortion in TbCo_2 . (A13). [Data] 471467
- magnetostriction**
- Calculation of magnetostriction and equilibrium arrangement of magnetization vector in layers of iron-cobalt alloys. (B22, A13). 484160
- mechanical properties**
- Development of ductile long-range ordered alloys for fusion reactor systems. (A14, B22). [Data] 464398
- Ductile ordered alloys. (B22, B21, E35). 486894
- microstructure**
- Phase composition and microstructure of rhenium-cobalt electrolytic alloys. (B22). 479462
- neutron diffraction**
- Neutron study of the magnetic correlations in amorphous ErCo_2 . (A13). 481076
- Neutron study of the magnetic correlations in amorphous ErCo_2 . (A13). 481075
- Polarised neutron study of TbCo_2 . (A13). [Data] 481093
- Studies of magnetic alloys by diffuse neutron scattering. (A31, A13). 490007
- order parameters**
- Ordering and decomposition in Fe-Cr-Co martensite. (B22). 484280
- orthorhombic lattices**
- Structure of CoZrD_3 . (B12). 465325
- phase diagrams**
- Alloys of the V-Co-Ga and V-Ni-Ga systems. (B22). 469238
- phase studies**
- Phase composition and microstructure of rhenium-cobalt electrolytic alloys. (B22). 479462
- phase transformations**
- Investigation into phase transformations in electrolytic cobalt-tungsten films. (B22). 476252
- physical radiation effects**
- Damage rates in neutron irradiated FeCo and FeCo2V ordered and disordered alloys. (B25). [Data] 481906
- Influence of dislocation doping on the recovery of neutron irradiated Fe-Co and Fe-Co-2V ordered alloys. (B25). [Data] 472743
- Radiation disorder model of phase stability. (B25, A14). 465734
- specific heat**
- Enthalpy and specific heat of a nickel-cobalt steel to 2000 K. (B22). [Data] 479458
- transition temperature**
- Variants of ZrCo and their superconducting critical temperatures. (A17, B24). 467980
- vanadium alloys**
- Phase constitution of the cobalt-rich cobalt-vanadium alloy system. (B22). 486863
- COBALT BASE ALLOYS:**
- See also *ALLOY-HS-25; HAYNES 25 ALLOY; STELLITE*
- binary alloy systems**
- Magnetic properties study of some iron and cobalt based alloys. (A13). 485615
- chromium carbides**
- Pilot tests with a directionally solidified eutectic superalloy. (E17, B22). 494888
- composite materials**
- Effect of a transverse thermal gradient on the microstructure of a directionally solidified 73C eutectic alloy. (B22). 460752
- deuterium**
- Magnetic aftereffect of hydrogen and deuterium in Co_2Sm . (A13). 477886
- eutectics**
- Eutectic composite materials. (B22; Ni-Al-Nb and Co-Ta-C eutectic alloys). 469125
- Pilot tests with a directionally solidified eutectic superalloy. (E17, B22). 494888
- Thermal stability of structure of deformed filamentary $\text{Co}(\text{Cr}, \text{Ni})$ -TaC eutectic. (B22). 476335
- fabrication**
- Ductile ordered alloys. (B22, B21, E35). 486894
- hydrogen**
- Magnetic aftereffect of hydrogen and deuterium in Co_2Sm . (A13). 477886
- magnetic properties**
- Barkhausen discontinuities, nucleation, and pinning of domain walls in etched microparticles of SmCo_5 . (B22). 486903
- Effects of substitution of chromium and nickel on the magnetic properties of $\text{Er}_2\text{Co}_{17}$ and $\text{Sm}_2\text{Co}_{17}$. (B22). 479447
- Magnetic properties study of some iron and cobalt based alloys. (A13). 485615
- Temperature dependence of the magnetic parameters in the $\text{Sm}/\text{sub } 2\text{-x}/\text{Gd}/\text{sub } \text{x}/\text{Co}/\text{sub } 17\text{-y}/\text{Mn}/\text{sub } \text{y}/$ compounds. (B22). 479367
- Temperature dependence of demagnetization of $\text{MM}/\text{sub } 1\text{-x}/\text{Sm}/\text{sub } \text{x}/\text{Co}_5$. (B22). 479420
- Ternary and quaternary rare earth cobalt magnetic materials with low reversible temperature coefficients. (B22). 479399
- magnetization**
- Temperature dependence of the magnetic aftereffect in Gd-Co films. (B22). 476242
- magnets**
- Structure of sintered SmCo_5 compound magnets. (B23). 469369
- mechanical properties**
- Ductile ordered alloys. (B22, B21, E35). 486894
- microstructure**
- Effect of a transverse thermal gradient on the microstructure of a directionally solidified 73C eutectic alloy. (B22). 460752
- neutron diffraction**
- Magnetic scattering of neutrons by the clusters in Co-rich CoAl compounds. (A13). [Data] 471576
- nuclear magnetic resonance**
- Distribution of hyperfine fields and magnetic perturbation in cobalt alloys with 3d transition metals. (A13). [Data] 474887
- phase studies**
- Phase constitution of the cobalt-rich cobalt-vanadium alloy system. (B22). 486863
- tensile properties**
- Influence of phase transformations in cobalt alloys on diffusion and mechanical properties. (B22). 476251
- thermodynamic properties**
- Effect of a transverse thermal gradient on the microstructure of a directionally solidified 73C eutectic alloy. (B22). 460752
- COBALT BORIDES:**
- fabrication**
- Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846
- COBALT BROMIDES:**
- raman spectra**
- Resonance Raman spectra of metal halide vapor complexes. (B12). 460514
- COBALT COMPLEXES:**
- chemical reaction kinetics**
- Kinetics of aequation of the tris(acetylacetonate) complexes of divalent chromium, cobalt, and ruthenium. A pulse radiolytic study. (B14, B12). [Data] 486751
- chemical reaction yield**
- Pulse radiolytic study of the oxidation of vitamin B/sub 12r/ by dibromide ions. (B14). 486753
- chemical reactions**
- One-electron reduction of tris(2,2'-bipyridine) and tris(1,10-phenanthroline) complexes of cobalt(III) in aqueous solution. (B14; Pulsed irradiation). [Data] 472543
- crystal structure**
- The molecular and crystal structures of some phenil and benzil phosphinioxides - Cl_2Co complexes. (A13). 459825
- electronic structure**
- Unusual charge distributions in some bis(fulvalene)dimetal complexes as revealed by X-ray photoelectron spectroscopy. (B12). 486568
- hot atom chemistry**
- Hot atom chemistry of radioactive cobalt in tris(β -diketonato)cobalt(III). (B13). [Data] 465439
- isomer shift**
- Moessbauer emission spectra of ^{57}Co -labelled amine adducts of bis(β -diketonato)Co(II). (B13). [Data] 479094
- molecular structure**
- The molecular and crystal structures of some phenil and benzil phosphinioxides - Cl_2Co complexes. (A13). 459825
- photoelectron spectroscopy**
- Unusual charge distributions in some bis(fulvalene)dimetal complexes as revealed by X-ray photoelectron spectroscopy. (B12). 486568
- pyrolysis**
- Amine complexes of chromium (3) and cobalt (3) salt with BH_4^- and B_3H_8^- anions in second sphere and their thermal stability. (B12). 476074
- quadrupole moments**
- Moessbauer emission spectra of ^{57}Co -labelled amine adducts of bis(β -diketonato)Co(II). (B13). [Data] 479094
- radiolysis**
- Kinetics of aequation of the tris(acetylacetonate) complexes of divalent chromium, cobalt, and ruthenium. A pulse radiolytic study. (B14, B12). [Data] 486751
- radiolysis of aqueous solutions of**
- ethylenediaminetetraacetatocobalt(II) and (III). (B14). 472516
- radiolysis of aqueous solutions of Co(II) and Co(III) complexes with diethylenetriaminepentaacetic acid. (B14). 476177
- Reaction mechanism of cobalt(III)-polyamine complexes with OH radicals. (B14). 465484
- radiosensitizers**
- Interaction of Cosup(III) complexes with radiation on 'in vitro' mammalian cells and on molecular systems. (C11). 463032
- solvent extraction**
- Salt effects in the synergistic solvent extraction of Co^{2+} . (B12). 462710
- structural chemical analysis**
- Preparation, structure, and spectral characterization of Bis[D- β -(2-pyridyl)- α -alaninato]cobalt(III), $\text{Co}(\text{D-Pyala})_2^+$. (B12). [Data] 486592
- Structure of nitrosyl(sulfur dioxide)bis(triphenylphosphine)cobalt. (B12). 465361
- COBALT COMPOUNDS:**
- See also *COBALT BORIDES; COBALT BROMIDES; COBALT FLUORIDES; COBALT NITRATES; COBALT OXIDES; COBALT SILICIDES*

- chemical radiation effects**
The electron beam recording material containing Co(III) complex compound and 1-(2-pyridylazo)-2-naphthol. (B14). 490504
- photolysis**
Reactivity of the carbonate radical toward metal complexes in aqueous solution. (B14). 472506
- sensitizers**
The electron beam recording material containing Co(III) complex compound and 1-(2-pyridylazo)-2-naphthol. (B14). 490504
- spin**
Spin state of the CO^{3+} ion in RCoO_3 compounds with the GdFeO_3 structure. (A13). 481128
- COBALT FLUORIDES:**
- neutron diffraction**
Fluctuations near the percolation threshold in two and three dimensions. (B15). 479320
- COBALT IONS:**
- electron spin resonance**
EPR of the Co^{2+} ion as a natural impurity in the tetrahydrated nickel acetate matrix. (A13). 471470
- COBALT ISOTOPES:**
See also COBALT 55; COBALT 57; COBALT 58; COBALT 59; COBALT 60; COBALT 61; COBALT 62; COBALT 64; COBALT 65
- isotope production**
Excitation functions for radioactive isotopes produced by proton bombardment of Fe, Co, and W in the energy range from 10 to 60 MeV. (A34). 490235
- radioactivation**
Neutronic calculations for graphite-thorium assemblies, 14 MeV neutron sources. (A34). [Data] 490197
- COBALT NITRATES:**
- liquid column chromatography**
Speciation of organometallic compounds by Zeeman atomic absorption spectrometry with liquid chromatography. (B11). 472363
- solubility**
Solubility in water systems: cobalt nitrate-benzamide-water at 25 deg C, cerium nitrate-benzamide-water at 25 deg C. (B12). [Data] 493633
- COBALT OXIDES:**
- photoelectron spectroscopy**
Spin state of the CO^{3+} ion in RCoO_3 compounds with the GdFeO_3 structure. (A13). 481128
- photoemission**
On the photoemission spectra of CoO : crystal-field analyses of the valence band structure. (A13). 481097
- COBALT SILICIDES:**
- crystal lattices**
Crystal structure of compounds of $\text{Sc}_2\text{Co}_3\text{Si}_3$ and Sc_2CoSi_2 . (B12). 465312
- Crystal structure of compounds of UCo_3Si_3 and ZrCo_3Si_3 . (B13, B12). 465450
- COBALT 55:**
- energy levels**
The $^{58} 60 62 64\text{Ni}(p,\alpha)^{55} 57 59 61\text{Co}$ reactions and their description by the semi-microscopic model for three-nucleon transfer. (A34). 483927
- isotope production**
Cyclotron production of carrier-free cobalt-55, a new positron-emitting label for bleomycin. (D13). [Data] 470230
- nuclear reaction yield**
Cyclotron production of carrier-free cobalt-55, a new positron-emitting label for bleomycin. (D13). [Data] 470230
- COBALT 57:**
- diagnostic techniques**
Experiences with ^{57}Co -labelled bleomycin in tumour diagnosis. (C62). 484755
- energy levels**
The $^{58} 60 62 64\text{Ni}(p,\alpha)^{55} 57 59 61\text{Co}$ reactions and their description by the semi-microscopic model for three-nucleon transfer. (A34). 483927
- J dependence of the analyzing power for (p,α) reactions. (A34). 486464
- energy-level transitions**
Gamma decay of gatsub 9/2at isobaric analog resonance in ^{57}Co . (A34). 486448
- gamma decay**
Time distributions of noncoherent resonance scattering of ^{57}Co 14.4 keV gamma radiation. (A34). 493331
- hyperfine structure**
Determination of the ^{57}Co hyperfine field in Pd^{57}Co from Moessbauer emission spectra in the regime of fast relaxation. (A13). 459780
- isobaric analogs**
Gamma decay of gatsub 9/2at isobaric analog resonance in ^{57}Co . (A34). 486448
- labelled compounds**
Moessbauer emission spectra of ^{57}Co -labelled amine adducts of bis(β -diketonato)Co(II). (B13). 479094
- moessbauer effect**
Comparison of Moessbauer spectra of ^{57}Co in silicon for high-temperature ion-implanted and for diffused samples. (A13). 474918
- nuclear reaction yield**
Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data] 486423
- uptake**
Fetal uptake of $^{60}\text{CoCl}_2$ and ^{57}Co -cyanocobalamin in different gestation stages of rats. (C21). 473076
- COBALT 58:**
- beta-plus decay**
An experiment on the decay of ^{58}Co . (A34). 486421
- chemical coating**
Process and system to control manganese and cobalt isotopes deposits from the cooling fluid of a reactor. (B13). 490432
- corrosion products**
Model for cobalt 60/58 deposition on primary coolant piping in a boiling water reactor. (E31, B22). 480625
- electron capture decay**
An experiment on the decay of ^{58}Co . (A34). 486421
- energy levels**
(n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
- fine structure**
Evidence for the fine-structure of the hole-state analogs. (A34). 465152
- nuclear reaction yield**
Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data] 486423
- radioecological concentration**
Radiological effects. (C15, C21, B32). 494310
- COBALT 59:**
- corrosion products**
Model for cobalt 60/58 deposition on primary coolant piping in a boiling water reactor. (E31, B22). 480625
- energy levels**
The $^{58} 60 62 64\text{Ni}(p,\alpha)^{55} 57 59 61\text{Co}$ reactions and their description by the semi-microscopic model for three-nucleon transfer. (A34). 483927
- J dependence of the analyzing power for (p,α) reactions. (A34). 486464
- COBALT 59 TARGET:**
- alpha reactions**
Mechanism of (α,p) , (α,d) , and (α,t) reactions in ^{27}Al , ^{59}Co , and ^{197}Au . (A34). 465121
- On mechanism of the (α, p) , (α, d) and (α, t) reaction on ^{27}Al , ^{59}Co and ^{197}Au nuclei. (A34). 468472
- Remarks on the applicability of the delta-square and chi-square functions in the optical model automatic search routines. (A33, A34). [Data] 472215
- Study of the level structure of ^{62}Ni . (A34). 481570
- cross sections**
Quasi-deuteron contribution to (γ,n) reaction. (A33). 472183
- helium 3 reactions**
Elastic scattering of 119 MeV ^3He particles and mass number dependence of optical potential parameter. (A34). [Data] 490181
- Equilibrium and preequilibrium emission of charged particles in reactions with 50 MeV ^3He ions on ^{27}Al , ^{59}Co , ^{90}Zr , ^{112}Sn nuclei. (A34). 493382
- neutron reactions**
The analysis of the $\text{Co}^{59}(n,p)\text{Fe}^{59}$ and $\text{Fe}^{54}(n,\alpha)\text{Cr}^{51}$ cross sections for their use in reactor dosimetry. (A34, E21). [Data] 483936
- photoneuclear reactions**
Atlas of photoneutron cross sections obtained with monoenergetic photons. (A34; Between 10 and 50 MeV). [Data] 486332
- Intermediate-energy isomeric ratios of some photospallation residuals from targets in the vanadium-cobalt region. (A34). [Data] 486364
- Photoneutron cross sections for ^{55}Mn and ^{59}Co . (A34). 490118
- Quasi-deuteron contribution to (γ,n) reaction. (A33). 472183
- pion minus reactions**
Absorption of stopped π^- in ^{59}Co , ^{75}As , ^{197}Au and ^{209}Bi investigated by in-beam and activation γ -ray spectroscopy. (A34). 468543
- proton reactions**
Excitation functions for radioactive isotopes produced by proton bombardment of Fe, Co, and W in the energy range from 10 to 60 MeV. (A34). 490235
- On charge-exchange reactions in the region of mean energies. (A33). 478605
- spallation**
Photodisintegration of light and medium-weight nuclei at intermediate energies-III spallation of vanadium, manganese, iron and cobalt. (A33). 472189
- COBALT 60:**
- adsorption**
Measurement of fission product sorption parameters for Hanford 200 Area sediment types. Progress report. (B31, C52; Comparison of methods for determining distribution coefficients of fission products in selected sediment types at Hanford disposal sites). [Data] 465789
- biological shields**
Simplified calculation of a barrier thickness for scattered radiation from cobalt-60. (C54). [Data] 473292
- chemical coating**
Process and system to control manganese and cobalt isotopes deposits from the cooling fluid of a reactor. (B13). 490432
- coincidence spectrometry**
High-sensitivity beta-gamma and gamma-gamma spectrometry. (E41). [Data] 477337
- corrosion products**
Model for cobalt 60/58 deposition on primary coolant piping in a boiling water reactor. (E31, B22). 480625
- dose rates**
Influence of secondary radiation produced by Co-60 source in the dose rate measurements. (C54). 463410

- dosimetry**
Chemical dosimetry of gamma source in the field of agriculture at the Nuclear Center of Casaccia (Italy). (C55). 480190
- energy levels**
(n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
⁶⁰Co neutron level parameters. (A34). [Data] 493348
- environment**
Measurement of fission product sorption parameters for Hanford 200 Area sediment types. Progress report. (B31, C52; Comparison of methods for determining distribution coefficients of fission products in selected sediment types at Hanford disposal sites). [Data] 465789
- gamma radiation**
Radiation effects on the extraction of americium(III) with di(2-ethylhexyl) phosphoric acid. (B14, B12, D23). 484109
A study of radiation effects on the extraction of americium(III) with acidic organophosphates. (B14, B12, D23). 484110
- heat exchangers**
Distribution of the ⁶⁰Co and ⁵⁴Mn isotopes in a circuit with the circulating N₂O₄ coolant in the condensation region. (B24, B11). 490687
- hot atom chemistry**
Studies of the yields of ⁵⁷Fe(II)-species produced after the EC-decay and of ⁶⁰Co(II)-species produced in the (n, γ) reaction in cobalt(III) coordination compounds. (B13). 472493
- irradiation**
Zirconium arsenophosphate as an ion exchanger. (B14). 479286
- isotope production**
Cobalt production in RAPS-I. (D13). 480286
- lung clearance**
Long-term clearance of inhaled ⁶⁰Co. (C21). 487289
- maximum permissible concentration**
Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). 474265
- nuclear reaction yield**
Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data] 486423
- radiation doses**
Determination of the correction factor for the dose outside the central axis in a cobalt-60 gamma radiation beam. (C64). 473528
Effect of gamma-radiation on the extraction of europium and americium by benzyldibutylamine. (B14, B12). 484102
Intercomparison of absorbed doses in cobalt-60 therapy. (C63). 463474
- radiation monitoring**
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
- radiation scattering analysis**
Influence of secondary radiation produced by Co-60 source in the dose rate measurements. (C54). 463410
- radioecological concentration**
Radiological effects. (C15, C21, B32). 494310
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
- radiometric analysis**
Non-isotopic indicators in radioanalytical chemistry. (B11). 490312
- radionuclide migration**
Fixation of ⁶⁰Co and ¹³⁷Cs on natural sorbents from phenol-polluted water. (B31). [Data] 476468
- radiotherapy**
Intercomparison of absorbed doses in cobalt-60 therapy. (C63). 463474
- rajasthan-1 reactor**
Cobalt production in RAPS-I. (D13). 480286
- retention**
Aquatic Ecology Section. (B32, C21; ⁶⁰Co, ¹³⁷Cs, ³H). 479658
- self-diffusion**
Self-diffusion of ⁶⁰Co and ⁷²Ga in the ordered electronic compound CoGa. (B12). [Data] 481656
- uptake**
Direct uptake of cobalt 60 by the carp (*Cyprinus carpio* L.) following experimental chronic or cyclical contamination of water. (C22). 463249
Fetal uptake of ⁶⁰CoCl₂ and ⁵⁷Co-cyanocobalamin in different gestation stages of rats. (C21). 473076
A study of the uptake and toxicity of some stable and radioactive pollutants in marine organisms: antimony, silver, cobalt and strontium in mollusks, crustaceans and teleosts. (C22). 473105
- COBALT 60 TARGET:**
spallation
A modified mass-yield formula for intermediate-energy photospallation of medium-weight nuclei. (A33). 472190
- COBALT 61:**
energy levels
The ⁵⁸ 60 62 64 Ni(p,α)⁵⁵ 57 59 ⁶¹Co reactions and their description by the semi-microscopic model for three-nucleon transfer. (A34). 483927
- COBALT 62:**
energy levels
(n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
Nuclear data sheets for A=62. (A34). [Data] 465145
- nuclear properties**
Nuclear data sheets for A=62. (A34). [Data] 465145
- COBALT 64:**
energy levels
(n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
- COBALT 65:**
mass
The mass of ⁶⁵Co. (A34). 481571
- COCKCROFT-WALTON ACCELERATORS:**
beam optics
Accelerator system for producing two-component beams for studies of interactive surface effects. (E16). 466541
control systems
Control system of KEK Cockcroft-Walton generator. (E16). 491676
ion beams
Precision ion accelerator. (E16; Ion sources: ¹H, ²D, ³T, ⁴He, ¹¹B, ¹²C, ¹⁰N, ¹⁸O, ¹⁹F, ²⁰Ne, ⁴⁰Ar). 494840
performance
Intense neutron source target test facility: a 200 mA dc, deuterium ion accelerator. (E16). 466521
- COCONUT PALMS:**
phosphorus
Absorption, distribution and utilization of radioactive phosphorus in healthy and root (wilt) diseased coconut palms. (C21, C41). 482085
- COCONUTS:**
radioactivity
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
- CODING CIRCUITS:**
See DIGITAL CIRCUITS
- COENZYMES:**
biological radiation effects
Effects of small doses of ionizing radiation given over varying time periods on CoA levels in the animal body. (C14). 463157
Effects of x-irradiation on lens reducing systems. (C14; Rabbits). 472954
- COFFEE BEANS:**
radurization
Feasibility of gamma irradiation for coffee beans preservation. Part of a coordinated programme on technological and economic feasibility of food irradiation. (C43). 466256
- COFFEE PLANTS:**
weather
Distribution of tpo in coffee trees under effect of frost. (C31). 476628
- COGEMA:**
fuel cycle
The fuel cycle and COGEMA. (F12). 474350
- COHERENT ACCELERATORS:**
See COLLECTIVE ACCELERATORS
- COHERENT PRODUCTION:**
angular distribution
Effects of hadron-formation zone on the decay-angle distribution in coherent production on nuclei. (A21). 481401
- COHERENT RADIATION:**
simulation
Simulations of free electron laser. (E16). 477011
- COHERENT SCATTERING:**
See also ATOMIC BEAM DIFFRACTION; BRILLOUIN EFFECT; DIFFRACTION; ELECTRON DIFFRACTION; NEUTRON DIFFRACTION; RAYLEIGH SCATTERING; X-RAY DIFFRACTION
- COILS (ELECTRIC):**
See ELECTRIC COILS
- COILS (MAGNETIC):**
See MAGNET COILS
- COINCIDENCE CIRCUITS:**
beam monitoring
Unit for selecting one-track events and for synchronizing the system of tuning and control for channels of particle beam. (E16). 477055
- COINCIDENCE METHODS:**
See also COINCIDENCE SPECTROMETRY; TAGGED PHOTON METHOD
- positron cameras**
A multi-crystal coincidence positron camera. (E41). 477379
- scintillation counters**
Process to determine the count rate of statistical coincidences in a scintillation counter using the coincidence method. (E41). 474087
- COINCIDENCE SPECTROMETRY:**
Detector for atomic particles and ionizing radiations. (E41). 474096
- chemical reactions**
Photoelectron - secondary ion coincidence technique for the study of ion-molecule reactions. (A12). 474606
- configuration**
Study of coincidence methods for detection of some radioisotopes. (E41). 495105
- correlation functions**
Multiple angular correlation between a large number of quanta in coincidence populated by heavy ion reaction. (A33). [Data] 464954
- gamma cascades**
Computer-building of gamma-ray decay schemes on the basis of gamma-gamma coincidences. (A33). 475741
- time-of-flight mass spectrometer**
Photoelectron-photoion coincidence spectrometer with double field TOF mass analysis. (E42). 485151
- COKE:**
chemical reaction yield
Radiotracer experiments on carbon formation in zeolites. II. (B12).

- [Data] 465427
- COLD NEUTRONS:**
(Neutrons of less velocity than thermal neutrons; at 15 c their energy is below 0.01 eV.)
See also **ULTRACOLD NEUTRONS**
- inelastic scattering**
Inelastic neutron scattering by adsorbed molecules and catalysts. (A31). 483713
- neutron transport theory**
Monte Carlo functional expansion calculation of free molecular flows. (A13, A31). 489041
- quasi-elastic scattering**
Neutron quasielastic scattering study of random motions in solids. (E16). [Data] 491612
- scattering**
Interpretation of data on the total cross sections of cold neutron scattering in condensed hydrogen-containing media. (A31). [Data] 486168
- small angle scattering**
The small-angle neutron scattering facility at the SAFARI-1 reactor. (E36). 474003
- waveguides**
The small-angle neutron scattering facility at the SAFARI-1 reactor. (E36). 474003
- COLD PLASMA:**
- boltzmann statistics**
Heat conduction and magnetic field induction in the presence of cold- and hot-electron Maxwellian distributions. (A14). 485806
- boltzmann-vaslov equation**
Classical Vlasov plasma description through quantum numerical methods. (A14). 462275
- boundary layers**
Boundary layer analysis of cold-blanket systems. (A14). 483367
- charged-particle transport**
Free-free Gaunt factor for dense low temperature plasmas. (A14). 489171
- corrections**
A technique for calculating finite Larmor radius corrections. (A14). 478155
- cyclotron instability**
Current driven electromagnetic ion cyclotron instability. (A14). [Data] 478042
- ecr heating**
Electron cyclotron heating in high density toroidal plasmas. (A14). 459938
- electric conductivity**
Current penetration and resistivity studies on TTT. (A14). 471664
- electromagnetic interactions**
Vacuum polarization effects on radiative opacities in a strong magnetic field. (A14). 489264
- electromagnetic radiation**
On the anomalous interaction of intense light fluxes with a dense plasma. (A14). 478022
- emission spectra**
Departures from thermal equilibrium in a dense Z-pinch plasma. (A14). 485781
- gas blankets**
Workshop on cold-blanket research. (A14). 467690
- hybrid resonance**
Lower hybrid resonance cones in tokamaks. (A14). 464273
- inhomogeneous plasma**
Relativistic effects on electromagnetic wave propagation in cold inhomogeneous electron plasma. (A14). 462282
- ion plasma waves**
Current driven electromagnetic ion cyclotron instability. (A14). [Data] 478042
- ion rings**
Stability properties of a cylindrical rotating P-layer immersed in a uniform background plasma. (A14). 467707
- larmor radius**
A technique for calculating finite Larmor radius corrections. (A14). 478155
- linear z pinch devices**
The evolution of a low temperature linear discharge plasma. (A14). 474953
- plasma instability**
Non-adiabatic stability analysis of current and magnetic curvature driven modes in cold plasmas penetrated by neutral gas. (A14). 459963
- plasma waves**
Conversion between cold plasma modes in an inhomogeneous plasma. (A14). 485830
- modulation instability**
Modulation instability of two transverse waves in a cold plasma. (A14). 478025
- On the stability of self-consistent large-amplitude waves in a cold plasma. (A14). 478104**
- On the stability of self-consistent large-amplitude waves in a cold plasma. (A14). 478105**
- On the stability of self-consistent large amplitude waves in a cold plasma. (A14). 462359**
- Stability of relativistic transverse cold plasma waves. (A14). 489317**
- Wave coupling in cold nonuniform magnetoplasma. (A14). 489220**
- scattering**
Scattering of light in a strongly magnetized plasma. (A15, A14). 478357
- stability**
On the stability of self-consistent large-amplitude waves in a cold plasma. (A14). 478105
- On the stability of self-consistent large amplitude waves in a cold plasma. (A14). 462359**
- thermal conductivity**
Heat conduction and magnetic field induction in the presence of cold- and hot-electron Maxwellian distributions. (A14). 485806
- tokamak devices**
Lower hybrid resonance cones in tokamaks. (A14). 464273
- toroidal configuration**
Electron cyclotron heating in high density toroidal plasmas. (A14). 459938
- travelling waves**
Nonlinear travelling longitudinal waves in cold plasmas. (A14). 489133
- vacuum polarization**
Vacuum polarization effects on radiative opacities in a strong magnetic field. (A14). 489264
- wave propagation**
Experimental study on interaction of power SHF pulses with a thermal-ionized plasma. (A14). 467498
- Modulation instability of two transverse waves in a cold plasma. (A14). 478025**
- On the stability of self-consistent large-amplitude waves in a cold plasma. (A14). 478105**
- Resonance tunnelling of waves in a stratified cold plasma. (A14). 462285**
- Stability of relativistic transverse cold plasma waves. (A14). 489317**
- Transient response of a cold lossy plasma half-space in the presence of a transverse static magnetic field. (A14). 478148**
- COLD TRAPS:**
- hydrogen**
Development of cold trap for LMFBFR. (E35). [Data] 492004
- sodium**
Performance analysis of mesh-packed cold traps. (E13). 463538
- Solution of the problem of heat-mass transfer in cold traps of sodium impurities. (E11). 487827**
- COLD WORKING:**
- plates**
Method for low temperature molding of metal sheets. (B21). 476231
- COLEOPTILE:**
- biological radiation effects**
A general description of barley coleoptile growth behaviour under low LET radiations. (C13). [Data] 463095
- COLIFORMS:**
(Restricted to papers on water purity analysis.)
- monitoring**
Sequim Marine Research Laboratory routine environmental measurements during CY-1978. (C22, B31, B33, C52; Monitoring for laboratory-related radioactivity and pollutants in environment). 473107
- COLLAGEN:**
- biological radiation effects**
Effects of radiation on collagen structure and biosynthesis. (C14). 465984
- radioimmunoassay**
Solid-phase radioimmunoassay for the detection of antibodies to collagen. (C45). 476651
- Study of the specificity of radioimmunoassay of type I and type III procollagen. (C45). 487353**
- COLLECTIVE ACCELERATORS:**
See also **ELECTRON-RING ACCELERATORS**
- Electron beam studies on the high-current ERG accelerator. (A14, E16). 474975**
- Study of collective ion acceleration in vacuum. (A12). 485430**
- beam dynamics**
Beam voltage and current parameter study for the autoresonant acceleration proof-of-principle experiment. (E16). 473694
- Collective ion acceleration and intense electron beam propagation within an evacuated dielectric guide. (E16). 477050**
- Dielectric guide controlled collective ion acceleration. (E16). 476991**
- IFA proof of principle experiments. (E16). 494823**
- New collective particle accelerator. (E16). 476989**
- Theoretical and experimental investigations of the autoaccelerator. (E16). 477019**
- Wave accelerator for collective ion acceleration. (E16). 476946**
- beam injection**
Collective ion acceleration and intense electron beam propagation within an evacuated dielectric guide. (E16). 477050
- beam transport**
Power balance limit in collective ion acceleration. (E16). 466552
- Wave amplitude variation and energy flow in autoresonant collective ion acceleration. (E16). 480454**
- computer calculations**
Simulation of collective ion acceleration in a slow cyclotron beam mode. (E16). 494770
- cyclotron harmonics**
Nonlinear characteristics of cyclotron waves in an ARA configuration. (E16; Autoresonant accelerator). 461547
- electric fields**
Formation of spatial-periodical electrostatic field in a magnetolimited electron flow. (E16). 494811
- electron beams**
Collective particle acceleration. (E16). 461552
- energy spectra**
Collective ion acceleration in a vacuum diode. (E16). 476945
- feasibility studies**
Experiments and scaling of the IFA. (E16). 470403
- IFA proof of principle experiments. (E16). 494823**
- heavy ion accelerators**
Collective ion acceleration with linear electron beams. (E16). 473717
- ion beams**
Collective particle acceleration. (E16). 461552

- performance**
 Beam pulse length and guide field strength parameter study for the autoresonant acceleration proof-of-principle experiment. (E16). 480455
- reviews**
 Beam voltage and current parameter study for the autoresonant acceleration proof-of-principle experiment. (E16). 473694
- specifications**
 Collective ion acceleration in a vacuum diode. (E16). 476945
- toroidal configuration**
 Linear beam collective ion acceleration for fusion applications. (E16). 476984
- wave propagation**
 Collective ion acceleration with linear electron beams. (E16). 473717
- waveguides**
 Collective field accelerator. (E16; Patent). 480479
- toroidal configuration**
 Toroidal collective accelerator for heavy ions. (E16). 477057
- wave propagation**
 Wave accelerator for collective ion acceleration. (E16). 476946
- comparison of Austin Research Associates and Los Alamos Scientific Laboratory loop-drive boundary conditions. Informal report. (E16). 466558**
- COLLECTIVE MODEL:**
 Field approach to the description of collective motions with large amplitudes. (A11). 492477
- microscopic theory of collective vibrations in nuclei. (A33). 468278**
- Monopole excitations in ^4He , ^{12}C and ^{24}Mg in a collective model description. (A33). 472187**
- angular momentum**
 Application of matrix mechanics to the asymmetric rotor in the high-spin limit. (A33). 486298
- bogolyubov method**
 Generalized Schwinger representation and its application to the anharmonicity. (A33). 465072
- coriolis force**
 Effective Coriolis coupling and nuclear Kondo effect. (A33). [Data] 465055
- dissipation factor**
 Derivation of the nuclear one-body dissipation formula from the Boltzmann equation. (A33). 481489
- energy transfer**
 Derivation of the nuclear one-body dissipation formula from the Boltzmann equation. (A33). 481489
- generator-coordinate method**
 A simplified generator coordinate treatment with analytical projected-BCS solutions for isovector pairing collective motions. (A33). 486250
- group theory**
 Dynamical symmetries in nuclei. (A33). 486238
- hartree-fock method**
 Field theory of large amplitude collective motion. A schematic model. (A11). 485360
- path-integral approach to time-dependent self-consistent field theories. (A11). 474508**
- quantized gauge invariant periodic TDHF solutions. (A11). 492442**
- kinetic energy**
 Geometric derivation of the kinetic energy in collective models. (A33). 468399
- kondo effect**
 Effective Coriolis coupling and nuclear Kondo effect. (A33). [Data] 465055
- quantum mechanics**
 Geometric quantization of nuclear collective models. (A33). 483793
- random phase approximation**
 Sum rules for nuclear collective excitations. (A33). 478607
- rotation**
 Collective variables for the description of rotational motion in many particle systems. (A33, A11). 472145
- microscopic theory of nuclear collective rotation. (A33). 481491**
- microscopic theory of nuclear collective rotation. (A33). 462608**
- rotational invariance**
 Microscopic theory of nuclear collective rotation. (A33). 462609
- rotational states**
 Microscopic theory of nuclear collective rotation. (A33). 462609
- scaling laws**
 Distribution of particles in Fermi systems. (A33). [Data] 464959
- sl groups**
 Recent work on collective motion. (A33). 483811
- spherical model**
 Self-consistent theory of finite Fermi systems and low-lying collective states in spherical nuclei. I. (A33). 475724
- wkb approximation**
 Field theory of large amplitude collective motion. A schematic model. (A11). 485360
- COLLECTIVE MOTION (IN NUCLEI):**
 See COLLECTIVE MODEL
- COLLECTORNS:**
 See SELF-POWERED NEUTRON DETECTORS
- COLLIDING BEAMS:**
 Physics at collider energies. (E16, A22). 473702
- beam dynamics**
 High energy electron cooling to improve the luminosity and lifetime in colliding beam machines. (E16). 476979
- electron cooling**
 High energy electron cooling to improve the luminosity and lifetime in colliding beam machines. (E16). 476979
- kek synchrotron**
 TRISTAN. (E16). 491679
- linear accelerators**
 Stanford: colliding linac beams. (E16). 480421
- positron channeling**
 On the possibility of charged particle focusing in colliding beam experiments. (E16). 487915
- COLLIMATORS:**
 Flowmeter using a radioactive positron emitting source without lead collimators. (E41, C31). 474084
- In vivo measurements. (E41, C62). 482825**
- control**
 Gamma camera. (E41; Patent). 461861
- fabrication**
 Wire-wound multi-aperture collimators. (D14). 473564
- fast neutrons**
 The local distribution of radiation quality of a collimated fast neutron beam from 15 MeV deuterons on beryllium. (C11, C55). 465887
- gamma cameras**
 Multi-view collimator for scintillation cameras. (E41). 495103
- images**
 Imaging ability of collimators in nuclear medicine. (D22). [Data] 487800
- mathematical models**
 A study of the point spread function in scintillation camera collimators based on Fourier analysis. (C62). [Data] 473463
- performance**
 Imaging ability of collimators in nuclear medicine. (D22). [Data] 487800
- radiotherapy**
 Beam collimator for a particle accelerator. (C54). 461335
- seals**
 Leak tight protective device associated with a directional unit ensuring the passage of a radiation beam. (E41; neutron collimators). 474106
- supports**
 Gamma camera. (E41; Patent). 461861
- transfer functions**
 Gamma camera. (E41; Patent). 461862
- On the performance of scanners Pt. I. (E41, C62). [Data] 495119**
- COLLISION MATRIX:**
 See S MATRIX
- COLLISIONAL PLASMA:**
 Atomic reaction rates in H^- and D^- plasmas. (A14). 459914
- atom-atom collisions**
 Photorecombination nature of the anomalous bright band ($\lambda = 5725 \text{ \AA}$) emitted from a discharge potassium plasma. (A14). 478094
- collisional heating**
 Self-focusing and self-defocusing of elliptically shaped Gaussian laser beams in plasmas. (A14). 467640
- cyclotron instability**
 Destruction of cyclotron resonances in weakly collisional, inhomogeneous plasmas. (A14). 485737
- diffusion**
 Rare collision effect on plasma diffusion in stochastic magnetic fields. (A14). 492757
- drift instability**
 Destruction of cyclotron resonances in weakly collisional, inhomogeneous plasmas. (A14). 485737
- Numerical analysis of nonlinear collisional drift instability. (A14). [Data] 489284**
- Numerical analysis of nonlinear collisional drift instability. (A14). 467643**
- electromagnetic pulses**
 Harmonic generation by an intense gaussian electromagnetic beam in a plasma medium. (A14). 492838
- electron density**
 Resonance probe for electron density determination in a collisional plasma. (A14). 492748
- electron plasma waves**
 Nonlinear equation of evolution for electron plasma waves including collisions. (A14). 489235
- energy losses**
 Slowing down of ions due to Coulomb collisions in a plasma. (A14). 459960
- fluid mechanics**
 A new approach to some nonlinear fluid dynamics problems. (A14). 474948
- impurities**
 Transport of a trace impurity in a dirty plasma in the Pfirsch-Schluter regime. (A14). 481179
- kinetic equations**
 Slowing down of ions due to Coulomb collisions in a plasma. (A14). 459960
- langmuir probe**
 Langmuir probe for low density plasma measurement. (A14). 492749
- laser radiation**
 The self-focusing of laser beams in magnetoplasmas: the moment theory approach. (A14). 485812
- laser-radiation heating**
 Scaling law of plasma temperature versus laser flux. (A14). 485810
- Self-focusing and self-defocusing of elliptically shaped Gaussian laser beams in plasmas. (A14). 467640**
- runaway electrons**
 Runaway electrons in toroidal discharges. (A14). 462350
- tearing instability**
 Asymmetrical tearing mode in a collisional plasma. (A14). 471632
- tokamak devices**
 Asymmetrical tearing mode in a collisional plasma. (A14). 471632
- two-stream instability**
 Two-stream instability for a scattered beam propagating in a collisional plasma. (A14). 489281

- wave propagation
 Experimental study on interaction of power SHF pulses with a thermal-ionized plasma. (A14). 467498
COLLISIONLESS PLASMA:
 Experiments on turbulent RF-heating with frequencies near the Opm cyclotron harmonics. (A14). 459931
boltzmann-vaslov equation
 Classical Vlasov plasma description through quantum numerical methods. (A14). 462275
cooling
 An analysis of the exhaust of a fusion reactor to a divertor target by collisionless processes. (A14). 462328
disturbances
 Linearized analysis of inhomogeneous plasma equilibria: General theory. (A14). 467605
 Transient growth in a current-carrying plasma. (A14). 478103
drift instability
 Analytic eigenvalue equations for collisionless drift waves in tokamaks. (A14). 471621
 Drift wave instabilities in a plasma of two-temperature electrons. (A14). 475149
 Stability of drift-wave eigenmodes with arbitrary radial wavelengths. (A14). 485763
 Unstable drift waves in a sheared magnetic field. (A14). 467603
electric currents
 Current interruption in a collisionless plasma by non-linear electrostatic waves. (B33). 484416
 Fluid description of a collisionless plasma and electric current systems in cosmic plasmas. (A14, B33). 489195
 Transient growth in a current-carrying plasma. (A14). 478103
electromagnetic radiation
 Interaction of strong electromagnetic fields with a plasma. (A14). 492759
high-frequency heating
 On the parametric excitation of potential oscillations with $\omega_{sub}(ph)$ approximately $\omega_{sub}(Tsubi)$ in a magnetized collisionless plasma. (A14). 478057
holes
 Formation and coalescence of electron solitary holes. (A14). 464456
hydromagnetic waves
 Hydromagnetic waves in high β plasmas. (A14). 459895
ion acoustic waves
 Acoustic instabilities and plasma heating resulting from energetic ion beam injection. (A14). 489215
 The current-driven, ion-acoustic instability in a collisionless plasma. (A14). 471693
 Energy properties of ion acoustic waves in stable and unstable plasmas. (A14). 478077
 Interaction of ion-acoustic solitons in three-dimensional space. (A14). 464518
ion beam injection
 Acoustic instabilities and plasma heating resulting from energetic ion beam injection. (A14). 489215
ion plasma waves
 Observation of self-modulation of low frequency oscillations. (A14). 459915
ion wave instability
 Effect of ionic temperature on the modulational instability of ion acoustic waves in a collisionless plasma. (A14). 464303
laser radiation
 The self-focusing of laser beams in magnetoplasmas: the moment theory approach. (A14). 485812
laser-radiation heating
 Heating of a collisionless turbulent plasma by multiphoton absorption. (A14). 485756
 Self-focusing and self-defocusing of elliptically shaped Gaussian laser beams in plasmas. (A14). 467640
losses
 Anomalous ion loss due to low-frequency instabilities. (A14). 483356
magnetic fields
 Reconnecting modes in collisionless plasmas. (A14). 485683
nonlinear problems
 Current responses of all orders in a collisionless plasma. I. General theory. (A14). 489240
plasma expansion
 Collisionless plasma expansion into a vacuum. (A14). 485696
plasma heating
 A new heating scheme for collisionless toroidal plasmas. (A14). 462287
plasma instability
 Nonlinear saturation of two unstable modes, survival competition. (A14). 462393
 Reconnecting modes in collisionless plasmas. (A14). 485683
plasma microinstabilities
 Tearing mode instabilities and their suppression by lower hybrid fields. (A14). 464488
plasma waves
 Current interruption in a collisionless plasma by non-linear electrostatic waves. (B33). 484416
 Low-frequency drift wave with trapped electrons. (A14). 489233
 Measurement of the cross spectrum of random linear electrostatic waves in an isotropic Maxwellian plasma. (A14). 467667
 Mode-mode coupling in a magnetized plasma. (A14). 459902
 Weak Langmuir turbulence of a semi-bounded plasma. (A14). 462267
population density
 Population densities and relaxation times in optically thin helium plasmas from a collisional-radiative model. (A14). 492831
probes
 Double probe theory for a low-density flowing collisionless plasma. (A14). 481181
q devices
 Determination of axial steady-state potential distributions in collisionless single-ended Q-machines. (A14). 489234
relaxation
 Population densities and relaxation times in optically thin helium plasmas from a collisional-radiative model. (A14). 492831
runaway electrons
 Analysis of particle orbits in an ultra-high-current plasma column. (A14). 467553
scattering
 Enhanced Brillouin scattering of a Gaussian laser beam from a plasma. (A14). 489344
solitons
 Formation and coalescence of electron solitary holes. (A14). 464456
tensors
 Current responses of all orders in a collisionless plasma. II. Homogeneous plasma. (A14). 489241
tokamak devices
 Application of bundle divertors to experimental tokamaks and reactors and some consequences of collisionless exhaust flow to divertor targets. (A14). [Data] 483349
trapped electrons
 Low-frequency drift wave with trapped electrons. (A14). 489233
two-stream instability
 Effect of streaming velocity in a two component plasma stream instability. (A14). 492797
wave propagation
 Closed-form solutions for large amplitude waves in collisionless plasma. (A14). 462307
 Resonant excitation of the upper hybrid wave by two em beams. (A14). [Data] 464473
COLLISIONS:
 (For low-energy interactions involving photons, electrons, ions, atoms, and molecules; not for the concept covered by NUCLEAR REACTIONS. For collisions with elementary particles and radiations, see also INTERACTIONS.)
 See also ATOM COLLISIONS; ATOM-ATOM COLLISIONS; ATOM-MOLECULE COLLISIONS; ELECTRON COLLISIONS; ELECTRON-ATOM COLLISIONS; ELECTRON-ION COLLISIONS; ELECTRON-MOLECULE COLLISIONS; ELECTRON-POSITRON COLLISIONS; ION COLLISIONS; ION-ATOM COLLISIONS; ION-ION COLLISIONS; ION-MOLECULE COLLISIONS; MOLECULE COLLISIONS; MOLECULE-MOLECULE COLLISIONS; PHOTON COLLISIONS; PHOTON-ATOM COLLISIONS; PHOTON-MOLECULE COLLISIONS; POSITRON COLLISIONS; POSITRON-ATOM COLLISIONS; POSITRON-ION COLLISIONS
adiabatic approximation
 Adiabatic analysis of collisions. III. Remarks on the spin model. (A12). 467198
astrophysics
 Collision processes in laboratory and astrophysical plasmas. (A14). 467654
excitation
 Inelastic energy loss: newer experimental techniques and molecular orbital theory. (A12). [Data] 477766
reaction kinetics
 Hadron chemistry in heavy ion collisions. (A21). 468108
statistical mechanics
 Multiple time scale stochastic formulation for collision problems with more than one degree of freedom. (A12). 467156
stochastic processes
 Multiple time scale stochastic formulation for collision problems with more than one degree of freedom. (A12). 467156
COLLOIDION:
 See NITROCELLULOSE
COLLOIDS:
 See also AEROSOLS; FOAMS; GELS; RADIOACTIVE AEROSOLS; RADIOCOLLOIDS; SMOKES; THOROTRAST; TOBACCO SMOKES
chemical preparation
 Preparation of monodispersed colloid solution of radioactive gold-198. (B13). 479102
COLOGNE SPIRITS:
 See ETHANOL
COLON:
 See LARGE INTESTINE
COLONIES:
 See POPULATIONS
COLONY FORMATION:
 See also SPLEEN COLONY FORMATION
acute irradiation
 Turtle fibroblast colony-forming efficiency after gamma radiation. (C11, C14). 465932
biological radiation effects
 Enhanced granulocyte growth on peritoneal cell-coated membranes following irradiation: a dual effect of humoral stimulation and repair of x ray-induced damage to the microenvironment. (C14). 461057
 Radiation-induced changes in the clonogenic ability of cells of NKLy/LL tumors of mice. (C11). 484434
chronic irradiation
 Comparison of CFU radiosensitivity to prolonged irradiation between mice and rats. (C14). 466014
inhibition
 Isolation and characterization of a mutant mouse lymphoma cell sensitive to methyl methanesulfonate and x rays. (C11, C14). 487187

- radiation doses
On biological interpretation of the activity of bone marrow hemopoiesis as function of radiation dose. (C14). 484512
- COLONY FORMING UNITS:**
See CFU
- COLOR:**
biological radiation effects
Role of citric acid in the after-cooking darkening of γ -irradiated potato tubers. (C43). 487330
- COLOR CENTERS:**
See also E CENTERS; F CENTERS; V CENTERS
radiation effects
Dynamic polarization in radiation resistant materials. (B12). 468734
- COLOR MODEL:**
Baryoniums and related states. (A21). 489751
Color singlet distributions and mass damping in perturbative QCD. (A21). 483622
Compound quarks and gluons and parton confinement (proposal of a different approach). (A21). 460188
Phenomenology with multi-quark states. (A21). 489813
Tests of color effects in Pati-Salam model. (A21). 489824
- charged-particle transport the
classical mechanics
Color oscillations and measuring the quark charge. (A21). 475605
Classical solutions of a model of quark confinement. (A21). 462572
- confinement
Qualitative quark confinement. (A21, A11; Infrared limit, α asymptotically free non-abelian gauge theories). 478458
- fluctuations
Color zitterbewegung. (A21). 468134
- magnetic fields
Color magnetic stability of a dense quark gas. (A11). 485287
- quark model
Quasinuclear colored quark model for hadrons. (A21; Lectures). 478472
- quark-quark interactions
Instanton enhancement of $\Delta I = 1/2$ nonleptonic interactions. (A11, A21). 480992
- quarks
Classical solutions of a model of quark confinement. (A21). 462572
- renormalization
Asymptotic freedom. (A21). 462564
- reviews
Bag model of quark confinement. (A21, A11). 489817
- supersymmetry
Local supersymmetry and interactions. (A21, A11). 475517
- symmetry breaking
Charged-gluon effects in dilepton production. (A21, A11). 475594
- threshold energy
Rigorous results on measuring the quark charge below color threshold. (A21). 478471
- vertex functions
On the colour contribution to effective weak vertex in broken colour gauge theories. (A21). 481410
- weak interactions
On the colour contribution to effective weak vertex in broken colour gauge theories. (A21). 481410
- COLORADO:**
geochemical surveys
Detailed uranium hydrogeochemical and stream sediment reconnaissance of the Tallahassee Creek, Badger Creek, Castle Rock Gulch, and Buffalo Gulch areas in the northwestern part of the Pueblo NTMS Quadrangle, Colorado. (B31). [Data] 472838
Uranium hydrogeochemical and stream sediment reconnaissance of the Lamar NTMS Quadrangle, Colorado, including concentrations of forty-three additional elements. (B31). [Data] 487120
Uranium hydrogeochemical and stream sediment reconnaissance of the La Junta NTMS Quadrangle, Colorado, including concentrations of forty-three additional elements. (B31). [Data] 472832
Uranium hydrogeochemical and stream sediment reconnaissance of the Durango NTMS quadrangle, Colorado. (B31). [Data] 469482
- magnetic surveys
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Denver and Pueblo Quadrangles, Colorado. Final report. (B31). [Data] 487084
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Denver Quadrangle, Colorado. Final report. (B31). [Data] 479592
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Pueblo Quadrangle, Colorado. Final report. (B31). [Data] 479593
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Greeley Quadrangle, Colorado. Final report. (B31; NURE program). 465764
Aerial gamma ray and magnetic survey: Rock Springs, Rawlins, and Cheyenne quadrangles, Wyoming and the Greeley quadrangle, Colorado. Final report. (B31). 469491
- radiometric surveys
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Denver and Pueblo Quadrangles, Colorado. Final report. (B31). [Data] 487084
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Pueblo Quadrangle, Colorado. Final report. (B31). [Data] 479593
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Denver Quadrangle, Colorado. Final report. (B31). [Data] 479592
Aerial gamma ray and magnetic survey: Rockies/Laramie Range Project, Greeley Quadrangle, Colorado. Final report. (B31; NURE program). 465764
- program). 465764
Aerial gamma ray and magnetic survey: Rock Springs, Rawlins, and Cheyenne quadrangles, Wyoming and the Greeley quadrangle, Colorado. Final report. (B31). 469491
- resources
Modes of uranium occurrences in Colorado Front Range. (B31). 465755
- uranium ores
Magnetic and electrical study of a roll-front uranium deposit in the Denver basin, Colorado. (D11). 491389
Modes of uranium occurrences in Colorado Front Range. (B31). 465755
Uranium and vanadium resources in the Moab 1°20' quadrangle, Utah and Colorado. (B31). 476411
Uranium and vanadium resources in the Moab 1°20' quadrangle, Utah and Colorado. (B31). 460836
Uranium deposits: northern Denver Julesburg basin, Colorado. (B31). 490807
- vanadium ores
Uranium and vanadium resources in the Moab 1°20' quadrangle, Utah and Colorado. (B31). 476411
Uranium and vanadium resources in the Moab 1°20' quadrangle, Utah and Colorado. (B31). 460836
- COLORATION:**
glass
Contribution to the investigation of induced coloured centres in sodalime glasses. (B25). 462940
- COLORIMETRY:**
See ABSORPTION SPECTROSCOPY
- COLUMBIA RIVER:**
geology
Survey of the ground-water geology and hydrology of the Pasco Basin, Washington. (B31, E52). 476463
- hydrology
Survey of the ground-water geology and hydrology of the Pasco Basin, Washington. (B31, E52). 476463
- radiation monitoring
Cycling of transuranic radionuclides in the Columbia River, its estuary, and the North Pacific Ocean. Progress report, February 1, 1978 - February 15, 1979. (B32). [Data] 494220
- COLUMBIUM:**
See NIOBIUM
- COLUMN PACKING:**
extraction chromatography
Inert carriers for column extraction chromatography. (B11). 468633
- COLUMNS (EXTRACTION):**
See EXTRACTION COLUMNS
- COLUMNS (MECHANICAL):**
See MECHANICAL STRUCTURES
- COLUMNS (THERMAL):**
See THERMAL COLUMNS
- COMBINED PINCH DEVICES (LINEAR):**
See LINEAR SCREW PINCH DEVICES
- COMBUSTION:**
See also FLUIDIZED-BED COMBUSTION
chemical reaction kinetics
Inelastic molecular collisions: applications of theoretical methods to problems in relaxation phenomena, laser operation, and combustion kinetics. Progress report, February 1 - November 1, 1978. (A12; Summaries of research activities at the University of Wisconsin). 474570
- information needs
Department of Energy: some aspects of basic research in the chemical sciences. (B16, E52, B11). 468620
- ionization chambers
Ionization detector. (D22). 494671
- COMBUSTION GASES:**
See FLUE GAS
- COMECON:**
nuclear power plants
Looking east - the nuclear push in the USSR and eastern Europe. (E30). 473845
- COMETS:**
A bibliography of planetary geology principal investigators and their associates, 1976 - 1978. (A15). 478305
Dense interstellar clouds and comets. (A15). 467761
- cosmology
Comets - cosmic 'snowballs'. (A15). 489571
- magnetic fields
On the size of the cometary tail magnetic field. (A15). 492956
- magnetotail
Simulation of cometary magnetic tails. (A15). 483551
- orbits
A statistical study of the evolution of the orbits of long-period comets. (A15). 471939
- plasma
Small-scale turbulence in cometary tails. (A15). 489559
- COMMERCE (NUCLEAR):**
See NUCLEAR TRADE
- COMMERCIAL NUCLEAR SHIPS:**
See NUCLEAR MERCHANT SHIPS
- COMMISSARIAT A L'ENERGIE ATOMI:**
See CEA
- COMMUNICATIONS:**
See also DATA TRANSMISSION; TELEMETRY
josephson junctions
Components for a Josephson intracomputer communication system. (E12). 487834

- nuclear power plants**
Planning and realisation of a radio-communications system for a nuclear generating station. (E13). 484847
- radiowave radiation**
Planning and realisation of a radio-communications system for a nuclear generating station. (E13). 484847
- superconducting devices**
Components for a Josephson intracomputer communication system. (E12). 487834
- COMMUNITIES (ECOLOGICAL):**
See *ECOSYSTEMS*
- COMMUTATORS:**
See also *CURRENT COMMUTATORS*
- COMP GENE MATIERES NUCLEAIRES:**
See *COGEMA*
- COMPACTS:**
- copper**
Contribution to the problem of the formation of necks between the particles in the process of sintering of compacts of copper powders. (B23). 481856
- sintering**
Contribution to the problem of the formation of necks between the particles in the process of sintering of compacts of copper powders. (B23). 481856
Thermodynamics and mechanisms of sintering. (B21). 460672
- COMPARATIVE EVALUATIONS:**
(Use in coordination with the concepts being compared. In the case of numerical data see also *EVALUATED DATA* or *COMPILED DATA*.)
- microspheres**
Cardiac output distribution measured with radioactive microspheres in the mouse. (C31). [Data] 476629
- radiation detectors**
Comparison of dose equivalent determination results behind IHEP accelerator shielding obtained by different methods. (C55). 469992
- COMPARATOR CIRCUITS:**
(Provide indication of agreement or disagreement between signals.)
- neutron flux**
Instrument for automation determination of a steady state of varying value. (E24). 491810
- scintillation counters**
Fast one-input circuit for pulse identification. (E41). 477395
- COMPARTMENTS:**
- radionuclide kinetics**
Study of biological compartments. (C21). 482096
- COMPATIBILITY (IMMUNOLOGICAL):**
See *IMMUNITY*
- COMPENSATION (WORKMENS):**
See *WORKMENS COMPENSATION*
- COMPLEXES:**
See also *more specific entries as listed in the INIS Thesaurus*
- data processing**
Methods of mathematical processing of results of physicochemical investigation on complexes. (B12). 468843
- distribution**
Complexing of reduced technetium and tin(II) by chelating phosphate compounds. Pt. 2. (B13, C21). 476154
- equilibrium**
Free metal and free ligand concentrations determined from titrations using only a pH electrode. Partial derivatives in equilibrium studies. (B11). 486487
- in vivo**
Complexing of reduced technetium and tin(II) by chelating phosphate compounds. Pt. 1. (C21). 476620
- intermolecular forces**
Approximate exchange perturbation study of intermolecular interactions in molecular complexes. (A12). 464093
- spectrophotometry**
Spectrophotometric determination of uranium(VI) with 7-iodo-8-hydroxyquinoline-5-sulfonic acid (feron). (B11). [Data] 478858
- stability**
Complexing of reduced technetium and tin(II) by chelating phosphate compounds. Pt. 2. (B13, C21). 476154
- superconductivity**
Superconductivity of macrometals. (A17). 471953
- synthesis**
Host-guest complexation. 15. Macrocyclic acetylacetone ligands for metal cations. (B12, B22). 490325
- COMPLEXOMETRY:**
- tracer techniques**
A new method for the determination of the composition of a complex in a two phase system using radioactive tracers. (B12). 462726
- COMPOSITE MATERIALS:**
See also *CERMETS; CONCRETE-PLASTIC COMPOSITES; FIBERGLASS; PRESTRESSED CONCRETE; REINFORCED CONCRETE; SUPERCONDUCTING COMPOSITES; TD-NICKEL; WOOD-PLASTIC COMPOSITES*
- annealing**
Changes in structure and strength of carbon filaments at high temperature of annealing of nickel base composite material. (B22). 465584
- bonding**
Influence of gas impurities on the solid-state bonding of Nb/Al₂O₃ composites above 1200°C. (B21). 479343
- cements**
Polymer reinforcement of cement systems. (D23). 491438
- electrolysis**
Anode dissolving of tungsten and its alloys with copper in chloride-fluoride electrolytes. (B21, B12). 493905
- electronic structure**
The electronic structure and stability of liquid metal alloys. (B22). 493987
- eutectics**
Eutectic composite materials. (B22; Ni-Al-Nb and Co-Ta-C eutectic alloys). 469125
- fabrication**
A new method for fabrication of thin plates and thin-walled cylinder made of fiber reinforced metal (FRM) and its application for the rotating drum of the nuclear fuel centrifugal separator. (B21). 476230
- materials testing**
A method for X-ray determination of elastic constants of multiphase materials for the use in the practice. (E17). 482650
- mechanical tests**
Preparation and testing of solid-state Bonded ceramic-to-metal-joints. (B24). 494091
- protective coatings**
Protective effect of titanium nitride coating on tungsten fibres. (B22). 465613
- thermal conductivity**
Thermal conductivity of granules. (B25). 490740
- thermal insulation**
Thermal conductivity of granules. (B25). 490740
- tracer techniques**
Analysis of composite electrochemical coatings using tracer technique. (D24). 491440
- transition element compounds**
Thermodynamic estimation technique of alloying addition effect on interphase interaction in composite materials. (B22). 490643
- vacuum welding**
Preparation and testing of solid-state Bonded ceramic-to-metal-joints. (B24). 494091
- COMPOSITE MODELS:**
See also *BOOTSTRAP MODEL; COLOR MODEL; FLAVOR MODEL; PARTON MODEL; QUARK MODEL*
- color model**
Global hadron compounding - is colour superfluous. (A21). 493087
- quarks**
Global hadron compounding - is colour superfluous. (A21). 493087
- COMPOUND NUCLEI:**
- channeling**
Shift of axial blocking of scattered nuclear products. (A13). 485636
- energy-level transitions**
Compound-state decay. (A33; (n, γα) and (n, γf) reactions). 468382
- lifetime**
Lifetimes of the compound nuclei ²³⁶U and ²³⁹U at excitation energies 6.7-10 MeV. (A34). [Data] 486480
- nuclear decay**
Angular correlations in compound nucleus decay following the reactions ¹⁶O + ²⁷Al, ⁴⁰Ca and ⁵⁸Ni. (A34). 468515
On the kinetic processes in photoexcitation of intermediate and heavy nuclei. (A33). 493297
Study of barrier penetration effects in the radioactive emission of composite nuclei. (A33). 464952
- proton reactions**
Analysis of data on the sections of elastic scattering through compound nucleus and (p,p') reactions on the sup(50,52)Cr, sup(54,56)Fe, sup(58,60,62)Ni according to the Tepel-Weidenmuller model. (A33). 493285
- COMPOUND-NUCLEUS REACTIONS:**
- cross sections**
Analysis of the cross section fluctuations in the accurately solved model of multi-channel nuclear reactions. (A33). 493163
- ericson theory**
Isospin mixing in the compound nucleus from Ericson fluctuations of mirror reactions. (A33). 468414
- excitons**
Angular and energy distributions of nuclear reaction products in the framework of the exciton model. (A33; ⁵⁹Co(n, n') reaction). 478662
- isospin**
Isospin mixing in the compound nucleus from Ericson fluctuations of mirror reactions. (A33). 468414
- nuclear reaction kinetics**
Atomic excitation effects on nuclear resonances and Q values. (A33, A12). 472154
Deep inelastic reactions with heavy ions. A probe for nuclear macrophysics studies. (A34). 460345
- proton channeling**
A measurement of compound nucleus time evolution using the crystal blocking technique. (A34). 465226
- r matrix**
Threshold phenomena in R-matrix theory. (A33). 464997
- s matrix**
Fluctuation effects on average cross sections in compound, direct and doorway state resonance reactions. (A33). 468363
- spin orientation**
Polarization effects in nuclear reactions. (A33, A34). 486194
- strong-absorption model**
Attachment coefficients in the strong-absorption model. (A33). 493148
- COMPOUNDS (ORGANIC):**
See *ORGANIC COMPOUNDS*
- COMPRESSIBLE FLOW:**
- boundary layers**
Secondary flow effects due to Hall currents in the compressible boundary layer near the insulator Wall of an MHD generator. (A16). 485963

- f codes**
- FLUST-2D - A computer code for the calculation of the two-dimensional flow of a compressible medium in coupled rectangular areas. (E11, F51). 461490
- COMPRESSION:**
See also **MAGNETIC COMPRESSION**
- adiabatic processes**
- Miniature plastic Pomeranchuk cells. (E12). 463526
The new-type Pomeranchuk cooling machine. (E12). 463532
- COMPTON DIODE DETECTORS:**
Directional detector of gamma rays. (E41; Patent). 488231
- specifications**
- Compton effect thermally activated depolarization dosimeter. (E41; Patent). 470922
- COMPTON EFFECT:**
Compton scattering: the investigation of electron momentum distributions. (A21; Book, review papers). 486110
- bone tissues**
- Compton scatter dosimetry in cancellous bone. (C61). [Data] 473357
- bound state**
- The dependence of the bound state Compton cross section and its infrared behaviour on binding and 'off-mass-shell' effects. (A12). 483208
- energy dependence**
- Asymmetry in the γ -ray Compton profile of aluminium. (A32). 490027
- gamma sources**
- Gamma ray sources for Compton profile measurements. (D14). [Data] 482508
- inelastic scattering**
- Inelastic Compton scattering in two-dimensional QCD. (A21). 483637
- infrared divergences**
- The dependence of the bound state Compton cross section and its infrared behaviour on binding and 'off-mass-shell' effects. (A12). 483208
- photon-electron interactions**
- Compton effect with relativistic electrons on perpendicular collision of interacting beams. (A22). 475681
- scattering amplitudes**
- Spin 3/2 fields and supergravity theories. (A11, A21). 463883
- COMPTON SCATTERING:**
See **COMPTON EFFECT**
- COMPTON SPECTROMETERS:**
Detector for atomic particles and ionizing radiations. (E41). 474096
- magnetic spectrometers**
- Magnetic Compton spectrometer free of second-order aberration. (E41). 470908
Magnetic pair and Compton spectrometers. (E41). 485023
- COMPUTER AXIAL TOMOGRAPHY SCAN:**
See **CAT SCANNING**
- COMPUTER CALCULATIONS:**
(Methods, not results.)
- algebra**
- Applications of symbolic algebraic computation. (F51). 485233
- analytical solution**
- Applications of symbolic algebraic computation. (F51). 485233
- display devices**
- Graphical interpretation of numerical model results. (F30). 480927
- n codes**
- NUSTRA - optimization code for nuclear reactor strategies. (F51, E30). 463833
- nuclear potential**
- Phase-integral method applied to the symmetric double-well potential problem. (A11). 488691
- plasma diagnostics**
- Plasma fluctuation diagnostics using digital spectral techniques. (A14). 492827
- COMPUTER CODES:**
(Computer codes are indexed by their initial letter and CODES, e.g., A CODES. If the code name begins with a number the code is indexed to NUMBER CODES.)
See also **A CODES; B CODES; C CODES; D CODES; E CODES; F CODES; H CODES; I CODES; M CODES; P CODES; Q CODES; R CODES; S CODES; T CODES; TRANSLOCATORS; W CODES**
- Computer code for the transfer function of seismic systems. (E14). 473639
- Computerized techniques for digital filtering and spectral decomposition with applications to nuclear magnetic resonance. (B10; Five peak spectrum fitting). 465246
- INSPECT: a package of computer programs for planning safeguards inspections. (F41). 480943
- JEREMIAH atmospheric transport and dose computational system. (B33, F30). 479678
- RIGGATRON systems analysis code. (A14). 485740
- TEK11 graphics user's guide. (A14). 467689
- Verification studies of GWHEAD, a computer code for determining the ground water heat with three-dimensional flow. (B31). 479636
- Versatile, computer-controlled, scanning monochromator for elemental analysis: software listings. (B11, F50). 490282
- a codes**
- ANIMAL code. (A13). 492664
- Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
- AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- ARDISC (Argonne Dispersion Code): computer programs to calculate the distribution of trace element migration in partially equilibrating media. (E52, B31, C54). 495228
- ASBLT: a system of DATATRAN MODULES which process core fuel loading for use in as-built calculations (LWBR Development Program). (E35). 488120
- ATOMLL: atoms with shading and highlights. (A12). 488871
- Automated preliminary risk analysis (AUTOET II). (C52). 487611
- Development and application of a risk assessment method for radioactive waste management. Volume IV. AMRAW computer code. user's manual. (E52, C54). 488376
- Input data instructions - simplified documentation of the computer program ANSYS. Report for 10 June 1976 - 31 March 1978. (E38; Protection barrier elastoplastic analysis). 470805
- Operators guide: Atmospheric Release Advisory Capability (ARAC) site facility. (B33). 479681
- Resuspension of toxic aerosol using MATHEW - ADPIC wind field - transport and diffusion codes. (C52, B33). [Data] 491186
- b codes**
- Analysis of a nuclear backscattering and reaction data by the method of convolution integrals. (B11, A12, A32; BASS, in FORTRAN for IBM 360). 465261
- BEACON/MOD2A analysis of the Arkansas-I reactor cavity during a hypothetical hot leg break. (C52, E32). 473252
- BEACON/MOD2A: a computer program for subcompartment analysis of nuclear reactor containment. A user's manual. (C52, E32; PWR). 487607
- Calculation of releases of radioactive materials in gaseous and liquid effluents from boiling water reactors (BWR-GALE Code). (C52, E31). 461173
- Effects of man's residence inside building structures on radiation doses from routine releases of radionuclides to the atmosphere. (C21, C15, C52, B33). 469761
- Exposure calculation code module for reactor core analysis: BURNER. (E21). 466596
- c codes**
- Analysis of steam chugging phenomena. Volume 2: user's manual for the CHUG1 computer program. (C52, E31; BWR). 469959
- CHARTB multigroup transport package. (A32, A31). 486170
- COBRA IV-I: an IBM-compatible version. (E32; PWR). 461706
- COMCAN II-A: a computer program for automated common cause failure analysis. (C52, E35; LMFBR). 487563
- COMMIX-1: a three-dimensional transient single-phase component computer program for thermal-hydraulic analysis. (E35; LMFBR). 480703
- CONCEPT-5 user's manual. (F11, E31, E32; Power plant costs). 461991
- CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). 487496
- Crab user's manual. (C52, E35). 494413
- CSTRES. A computer program for evaluating the thermally induced interaction between helical tube bundles and their support plates. User's manual. (E33; HTGR). 466713
- Embrittlement of zircaloy cladding due to oxygen uptake (CBRTTL). (C52, E31, E32; BWR; PWR). 466324
- Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
- U₃O₈ production cost analysis study. (B31, B16; CASHFLOW). 469475
- User's guide to the CALVEC software library: a computer program for emulation of CALCOMP graphics on a versatec printer/plotter. (A14). 471647
- cross sections**
- A code system to generate multigroup cross-sections using basic data. (E21). 482660
- d codes**
- DDET: a program which simulates on-line detectors. (F41). 477535
- Development of a mid-head radiation dose response function. (D15, C15, E14; Phantom determinations of neutron and γ absorbed doses in mid-brain for military applications). 470256
- Diversion Path Analysis handbook. Volume 3 (of 4 volumes). Computer Program 1. (F41; DPACP-1). 492319
- Diversion Path Analysis handbook. Volume 4 (of 4 volumes). Computer Program 2. (F41; DPACP-2). 492320
- Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities. (C21, B33, B31, B32, C52; Conversion factors are given for dose rates to 21 organs from 240 different radionuclides for 3 different modes of exposure). 466207
- documentation**
- Assessing the usability of technical manuals: a successful case history. (F30, F50). 477524
- e codes**
- Calculation of chemical equilibrium between aqueous solution and minerals: the EQ3/6 software package. (E52, B31; In FORTRAN extended 4.6 for CDC6600 and 7600). 474294
- Electron excitation of alkali atoms. (A12; EACLOC computer code for excitation of alkali atoms by electron collisions). 474642
- EPRI - CURL dynamic analysis of loop type LMFBRs. Final report. (C52, E35). 494398
- EXPAREA: a computer code for analysis of test scale underground excavations for disposal of radioactive waste in bedded salt deposits. (E52, F50; EXPAREA). [Data] 488386
- Methods for prediction of strong earthquake ground motion. (C52; EQRISK, for finding uniform risk spectra; SYNACC, for generating synthetic accelerograms). 487597
- Program ECSX4 (version 78-1): conversion of experimentally measured cross-section data from the four-center-exchange (X-4)

- format to the Livermore ECSIL format. (A30; In FORTRAN). 486157
- Program EVALPLOT (Version 79-1): plot data in the Evaluated-Nuclear-Data File/Version B (ENDF/B) format. (A34; In FORTRAN for CDC 7600). 486361
- f codes**
- API90L and PDP-K110: a hardware/software measurement report. (F50; FIVE package for use with AP). 492330
- Computer-aided Fault Tree Analysis. (C52; FTAP, in FORTRAN for CDC 6600/7600 and IBM 360/370 series computers). 466340
- FAUNET: a program package for fault tree and network calculations. (C52). 487556
- Fission gas release (FGASRL). (E31, E32; BWR; PWR). 470634
- FISSION 2120: a program for assessing the need for engineered safety feature grade air cleaning systems in post accident environments. (C52). 480112
- FRAP-S3: a computer code for steady state analysis of oxide fuel rods. Model assessment report. (E32; PWR). 473884
- FRAP-T5: a computer code for the transient analysis of oxide fuel rods. (C52, E35). 494435
- FRAPCON-1: a computer code for the steady state analysis of oxide fuel rods. (E31, E32; PWR; BWR). 488041
- FRESS pin failure model and its application to E-8 TREAT test. (C52, E35). 487512
- Fuel behavior model development: FRAPCON-2 uncertainty analysis option. (E31, E32; PWR; BWR). 488045
- Fuel thermal conductivity (FTHCON). Status report. (E31, E32; PWR; BWR). 470626
- Fuel vapor pressure (FVAPRS). (C52, E31, E32; BWR; PWR). 480113
- FWLTB: a mathematical model to calculate the lifetime of the fusion reactor first wall. (A14). 474982
- Pressurized water reactor lateral core response routine (Fuel Assembly Mechanical Response Code) FAMREC. Interim report. (E32). 473893
- Trace impurity transport code. (A14). 485834
- User's guide for the JULIET module of the FORSS sensitivity and uncertainty analysis code system. (A31, E21). 468229
- fortran**
- Algebraic Operations with Multivariable-Polynomials. (A11, F50). 459694
- g codes**
- GAPCON-THERMAL-3 verification and comparison to in-reactor data. (E23; Thermo-mechanical behavior of oxide fuel rods). 461643
- h codes**
- HOTSED: a discrete element model for simulating hydrodynamic conditions and adsorbed and dissolved radioisotope concentrations in estuaries. (B32). 465815
- PL-MOD: a computer code for modular fault tree analysis and evaluation. (C52). 487544
- Sensitivity analysis of the HAARM-3 code. (C52, E35; LMFBR aerosol agglomeration). 461241
- indexes**
- Computer software summaries. Numbers 325 through 423. (F50). 477540
- information**
- Portability and the National Energy Software Center. (F50, F30). 471173
- j codes**
- Coupled-channel analysis for heavy-ion induced scattering and transfer reactions. (A33; Born, WKB, and Pade approximations, JPKWB and MARSWKB codes, transfer reactions). 460296
- JONAH algorithms: C-2 the ratio option. (E14). 461519
- Thermoelastic analysis of spent fuel and high level radioactive waste repositories in salt. A semi-analytical solution. (E52, F50, E15; JUDITH). 488385
- User's guide for the JULIET module of the FORSS sensitivity and uncertainty analysis code system. (A31, E21). 468229
- k codes**
- Computer program K-FIX/MOD1: a modification of the computer program K-FIX for applications to fluid flow simulation in LOFT system piping. (E36). 480722
- K-FIX: a computer program for transient, two-dimensional, two-fluid flow. THREEED: an extension of the K-FIX code for three-dimensional calculations. (C52, E31, E32, E11; BWR; PWR). 466325
- l codes**
- LIEPROC: a MACSYMA program for finding adiabatic invariants of simple Hamiltonian systems via the Lie transform. (F50, A14; In LISP for Decsystem-10). 488505
- m codes**
- Computer generated movies to display biotelemetry data. (B31, C52, F30; Habitat studies of elk in New Mexico). 490819
- Contributon Monte Carlo. (A32, A31; Application in MCNP code). 486174
- Coupled-channel analysis for heavy-ion induced scattering and transfer reactions. (A33; Born, WKB, and Pade approximations, JPKWB and MARSWKB codes, transfer reactions). 460296
- Mathematical behavior and computation of transmission probabilities for annular regions. (A31; Application in MC²-2 code). 486161
- MDSFP: a computer program for elastic solution of three dimensional structures by the finite element method (LWBR development program). (E35). 488131
- MELT-IIIB: an updated version of the melt code. (C52, E35; LMFBR). 482239
- MESODIF-II: a variable trajectory plume segment model to assess ground-level air concentrations and deposition of effluent releases from nuclear power facilities. (B33, C52). 487157
- Methods and applications of Monte Carlo in low energy (less than or equal to 20 MeV) neutron-photon transport (MORSE). Part I. Methods. (A32, A31). 460264
- MOLID: a general purpose subroutine package for the numerical solution of partial differential equations. (F50; Method of lines, in FORTRAN). 474383
- Resuspension of toxic aerosol using MATHEW-ADPIC wind field-transport and diffusion codes. (C52, B33). [Data] 491186
- Statistical model analysis of spin influence on the deexcitation of fission fragments. (A33; Angular momentum). 465033
- User's guide to program MAD: a computer program for the organization and manipulation of magnetic tape directories. (A14). 485724
- o codes**
- Three-dimensional computer code for the nonlinear dynamic response of an HTGR core. (C52, E33; OSC3D code). 494440
- Updated decay and photon libraries for the ORIGEN code. (A34). 465115
- Validation and sensitivity analysis of ORINC. (C52, E32; PWR). 461305
- p codes**
- Calculation of fast neutron depth-dose in the ICRU standard tissue phantom and the derivation of neutron fluence-to-dose-index conversion factors. (D15). 491406
- Computer code for fault tree calculations: PATREC. (C52). 487418
- Local and non-local potentials for deuteron elastic scattering. (A33; Central, spin-orbit and spin-radial potentials, folding model, 15 MeV, polarization moments; DDUNC1). 460307
- PELLET: a computer routine for modeling pellet fueling in tokamak plasmas. (A14). 459917
- Thermal-hydraulic analysis techniques for axisymmetric pebble bed nuclear reactor cores. (E33; PEBBLE code). 477262
- User manual for PACTOLUS: a code for computing power costs. (F11; In FORTRAN IV for CDC Cyber 74, UNIVAC 1100/44, and IBM 370/168). 474313
- performance**
- Verification of reactor safety codes. (C52). 469942
- q codes**
- QIKMIX: a quick-turnaround computer program for computing opacities of mixtures. (B12). 493548
- QUARTZ: a numerical simulation of an asymmetric electrostatic accelerator. (A14). 467539
- r codes**
- ARC System fuel cycle analysis capability, REBUS-2. (F12, E35). 474344
- Blowdown (RELAP4/MOD7, Version 2) checkout and demonstration problems. (C52, E32; PWR). 469897
- Recharge and repressurization in the repflo model. (B31, C52). 494193
- REFFLO model evaluation, physical and numerical consistency. (C52, E52, B31, B32). 487612
- reactor cores**
- DASH: a multicomponent time-dependent concentration diffusion with radioactive decay program. (E33; HTGR). 488081
- reactor lattices**
- Neutron study of fast neutron reactor systems by exponential experiments on Harmonie - Graphite program HUG-PHUG - Oxide program PHRIXOS - Uranium program UK. (E21). 463563
- resonance integrals**
- An attempt to explain the uranium 238 resonance integral discrepancy. (A31). 464925
- s codes**
- Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). 469975
- Computational techniques used in the development of coprocessing flowsheets. (B16; SEPHIS). 486806
- Computer program SUPAN: a post processor for the analysis of beam type piping supports. (E13, E22; Thermal power plants). 480385
- First results with the SISYFUS code: the influence of plasma impurities on the performance of tokamak power plants. (A14). 474965
- Methods for prediction of strong earthquake ground motion. (C52; EQRISK, for finding uniform risk spectra; SYNACC, for generating synthetic accelerograms). 487597
- Modified version of SAMPO for TSO graphics analysis of nuclear spectroscopic data. (E41; In Fortran for IBM 3033). 466770
- SACRD: a data base for fast reactor safety computer codes, contents and glossary of Version 1 of the system. (C52, E35). 461214
- SACRD: a data base for fast reactor safety computer codes, general description. (C52, E35). 463369
- SCATPI, a subroutine for calculating πN cross sections and polarizations for incident pion kinetic energies between 90 and 300 MeV. (A21; In FORTRAN for CDC 6600 and 7600 and Xerox Sigma 7). 481430
- SEDONE: a computer code for simulating tidal-transient, one-dimensional hydrodynamic conditions and three-layer, variable-size sediment concentrations in controlled rivers and estuaries. (B32, C52; Code has application in determining hydrodynamic, thermal, chemical, radiological, and biological impacts of thermal power plants). 469539
- SIFAIL: a subprogram to calculate cladding deformation and damage for fast reactor fuel pins. (E35). 492017
- SIMMER-II code and its applications. (C52, E35; LMFBR). 494436
- SKIRON: a computer code for evaluating atmospheric dispersion for design basis accident analyses. (C52). 487494
- SKYSINE-II procedure: calculation of the effects of structure design on neutron, primary gamma-ray and secondary gamma-ray

- dose rates in air. (C52). 494417
 SLIC: an interactive mesh generator for finite element and finite difference application programs. (F50; STAR 100 and CRAY 1). 492327
- SOILST:** a computer program for soil-structure interaction analysis. (C52). 487505
SOLA-DF: a solution algorithm for nonequilibrium two-phase flow. (C52, E31, E32; PWR; BWR). 494409
SOLA-LOOP: a nonequilibrium, drift-flux code for two-phase flow in networks. (C52, E32, E31; BWR; PWR). 494408
SPKSAM: a collection of SPEAKEASY linkules for TSO graphics analysis of nuclear spectroscopic data. (E41; For IBM 3033). 466835
- Systems reliability analysis:** applications of the SPARCS-System-Reliability Assessment Computer Program. (F11; SPARCS-2 code, nuclear power plants). 474320
Users' manual for the SSC-L code. (C52, E35; LMFBR). 473196
- t codes**
 Applications of the thermite code to 3D thermal hydraulic analysis of LWR cores. (E31, E32). 461683
 Computer automation of continuous-flow analyzers for trace constituents in water. Volume 4. Description of program segments. Part 2. TAAINRE. (E42). 492199
 Computer automation of continuous-flow analyzers for trace constituents in water. Volume 4. Description of program segments. Part 1. TAAIN. (B11; Technicon AutoAnalyzer). 478801
 Development of a quasi three-dimensional groundwater model for a portion of the Nevada Test Site. (B31, B32; THESIS, in FORTRAN for CDC 6400). 465785
 Electromagnetic field and mechanical stress analysis code. (A14). 485739
- K-FIX:** a computer program for transient, two-dimensional, two-fluid flow. THREED: an extension of the K-FIX code for three-dimensional calculations. (C52, E31, E32, E11; BWR; PWR). 466325
- Septum magnet coil design principles.** (E16; Guide to using the computer code TRIM for coil design). 480452
TIGERP. (A32, A12; Monte Carlo method). 490026
TRAC-PIA: An advanced best-estimate computer program for PWR LOCA analysis. (C52, E32). 487524
TRAP-MELT users manual. (C52, E31, E32; BWR; PWR). 466307
TRIDENT-CTR user's manual. (A14). 489332
 Twopool strategy and the combined compressible/incompressible flow problem. (E22, E11). 491758
- transport theory**
 Survey of 1 1/2D transport codes. (A14). 459907
- w codes**
 User's guide for the BWR LOCA analysis capability of the WRAP-EM system. (C52, E31). 480022
- COMPUTER LANGUAGES:**
See PROGRAMMING LANGUAGES
- COMPUTER NETWORKS:**
 (A complex consisting of two or more interconnected computing units.)
 Computer network for nuclear instruments. (E24, F50). 466631
- image processing**
 The HEVAS-project - an example for a hierarchically organized computer network. (F51). 492358
- jaeri**
JAERI Tokai on-line network system. (F31). 492310
- on-line systems**
KEKNET, a high speed on-line network for high energy physics. (E41). 470819
- performance**
 System performance optimization. (F31). 462025
- reviews**
 Overview of CTR-division control and data acquisition computer usage at the Los Alamos Scientific Laboratory. (F50, A14). 474382
- COMPUTER PROGRAMMING:**
See PROGRAMMING
- COMPUTER PROGRAMS:**
See COMPUTER CODES
- COMPUTER-AIDED DESIGN:**
PROBAD/DRACULA. (E13, F51). 473632
- COMPUTER-GRAPHICS DEVICES:**
See also DISPLAY DEVICES; INTERACTIVE DISPLAY DEVICES; PLOTTERS
- calibration**
 Calibration of ADRET voltage generator type CV102. Program CODAV. (E42). 471002
- programming**
 Design considerations and philosophy of a device-independent publications/graphics system. (F30). 466933
- COMPUTERS:**
See also ANALOG COMPUTERS; DIGITAL COMPUTERS; HYBRID COMPUTERS; MICROPROCESSORS; PDP COMPUTERS; PROCESS COMPUTERS
 Support facilities. (F30). 471143
- collimators**
 Optimization using computer collimation in radionuclide scintigraphy of brain. (C62). 494534
- comparative evaluations**
 Micro/mini and hybrid computer costs for solving dynamic models. (F50). 474381
- cost**
 Large computer systems and new architectures. (F31). 462027
- data acquisition systems**
 A high-speed, economical minicomputer. (F31). 471144
- data processing**
 A high-speed, economical minicomputer. (F31). 471144
 A pre-programmed digital computer particularly intended for measuring the concentration of radon daughter products in the air. (E41). 470850
- equipment interfaces**
CAMAC to GPIB interface. (F50; DOE). 471175
 Parallel preprocessing in a nuclear data acquisition system. (E42). 471011
- josephson effect**
 Josephson effect devices. (A17). 475465
- josephson junctions**
 Josephson effect devices. (A17). 475465
- memory devices**
 Long term file migration. Part I: file reference patterns. (F50, F30). 488510
- planning**
 Specialized, multi-user computer facility for the high-speed, interactive processing of experimental data. (F50, A22, A30). 488507
- programming**
API90L and PDP-K110: a hardware/software measurement report. (F50; FIVE package for use with AP). 492330
- research programs**
 Courant Mathematics and Computing Laboratory, New York University. Progress report No. 54, October 1, 1977 - September 30, 1978. (F50; Courant Mathematics and Computing Laboratory, New York Univ.). 480945
- security**
 Computer security simulation. (F41; SECSIM code). 474375
- uses**
 User perspectives on computer applications. (F50). 488511
- CONCENTRATES:**
See ORE CONCENTRATES
- CONCENTRATION (ANALYTICAL):**
See QUANTITY RATIO
- CONCENTRATION DEPENDENCE:**
See QUANTITY RATIO
- CONCENTRATIONS (RADIONUCLIDES):**
See RADIOACTIVITY
- CONCRETE-PLASTIC COMPOSITES:**
polymerization
 Energy dependency of mechanical properties on polymer impregnated concrete polymerized by radiation induced method. (B25). [Data] 472770
- reviews**
 Polymer reinforcement of cement systems. (D23). 491438
- CONCRETES:**
See also PRESTRESSED CONCRETE; REINFORCED CONCRETE
- albedo**
SAI/EPRI Albedo Information Library. (E31, E32, A31; BWR; PWR). 488054
- compression strength**
 Strength properties of concrete at elevated temperatures. (B24, E35). 469399
- construction**
 Comparative analysis of structural concrete Quality Assurance practices on nine nuclear and three fossil fuel power plant construction projects. Final summary report. (B24, E30). 479527
- decomposition**
 Heat and mass transport processes of a horizontal melting or decomposing layer under a molten pool. (C52, E32, E35, B15; BWR; PWR; LMFBR). 469893
 Influence of gas generation on high-temperature melt/concrete interactions. (C52, E31, E32, E35, B15; BWR; PWR; LMFBR). 469951
- diffusion**
 Transient heat transfer in concrete. (E35; LMFBR). 461742
- elasticity**
 Calculations of the diffusion of nuclides through cracks in containers made of concrete. (E52). [Data] 461958
- feasibility studies**
 Strength properties of concrete at elevated temperatures. (B24, E35). 469399
- fission neutrons**
 The suitability of using concrete for solidification of liquid radioactive wastes. (E51). 463768
- fracture properties**
 Depth-dose distribution for fission neutron spectra degraded through low Z shields. (A31). 468233
- gamma dosimetry**
 Local structural behavior of concrete at elevated temperatures. (B24, B15). 490686
- gamma radiation**
 Activation of concretes for fusion applications. (D15, A14, A31). 461462
- ilmenite**
 Study of attenuation factor of gamma radiation in concrete shielding. (A32). 472120
- mechanical structures**
 Attenuation of fast neutrons in ilmenite concretes. (C54). 487626
- mechanics**
 On three-dimensional nonlinear analysis of concrete structures. (E13, F51). 480377
- neutron reactions**
 Some notes on the dynamic properties of unsaturated concrete. (B24). 490705
- neutron reactions**
 Transport of accelerator produced neutrons in a concrete room. (E16). 470396

- neutron transport**
Activation of concretes for fusion applications. (D15, A14, A31). 461462
Neutron-photon multipgroup cross sections for neutron energies less than or equal to 60 MeV. (A31, A32, D15). 460248
Radiation transport in earth for neutron and gamma ray point sources above an air-ground interface. (A32, A31, E14). 472126
- nuclear power plants**
Epoxy resin for concrete construction in nuclear power stations. (B24). 484296
- photon transport**
Penetration of 6 MeV gamma photons through aluminium, concrete and graphite. (A32). 481458
Radiation transport in earth for neutron and gamma ray point sources above an air-ground interface. (A32, A31, E14). 472126
Removal of negative albedo terms in gamma-ray albedo data. (A32). 460274
Tchebycheff-fitted berger coefficients for Eisenhauer-Simmons gamma-ray buildup factors in ordinary concrete. (A32, E22). 460263
- photons**
Measurement of number albedo of backscattered photons. (A32). 468239
- protective coatings**
Epoxy resin for concrete construction in nuclear power stations. (B24). 484296
- quality assurance**
Comparative analysis of structural concrete Quality Assurance practices on nine nuclear and three fossil fuel power plant construction projects. Final summary report. (B24, E30). 479527
- quality control**
Development of a device for continuous automatic monitoring of consolidation of fresh concrete. Final report. (D22, B24). 480316
- radiation doses**
The radioactivity of aggregates for concrete making in Sweden. (B31). [Data] 490782
- radioactive waste storage**
Final storage in concrete of activated metal parts. (E52). [Data] 461980
- radiosensitivity**
Ionizing radiation effects on technological materials. (B25). 479554
- seismic effects**
Rocking and overturning response of rigid bodies to earthquake motions: a report of an analytical and experimental study on the rocking and overturning response of rigid blocks to simultaneous horizontal and vertical accelerations. (E16). 470367
- shielding materials**
Radiation protection concretes. (C54, B24). 494452
Study of attenuation factor of gamma radiation in concrete shielding. (A32). 472120
- slabs**
An investigation into the behaviour of perforated slabs for concrete reactor vessels under temperature and external load. (E22, E17). 461629
- stress analysis**
Local structural behavior of concrete at elevated temperatures. (B24, B15). 490686
- thermal conductivity**
Transient heat transfer in concrete. (E35; LMFBR). 461742
- CONDENSATES:**
purification
Condensate polishing in nuclear power stations with boiling water reactors. (E31, B15). 466664
- CONDENSATION (VAPOR):**
See VAPOR CONDENSATION
- CONDENSATION CHAMBERS:**
stress analysis
Effects of torus wall flexibility on forces in the Mark I Boiling Water Reactor Pressure Suppression System. Part I. (C52, E31). 469937
- CONDENSED AROMATICS:**
See also ACENAPHTHENE; BENZOPYRENE; FLUORENE; NAPHTHALENE; PHENANTHRENE; PYRENE
chemical reaction yield
Acid-catalyzed cyclization of cembrene and isocembreol. (B12). [Data] 472422
- photochemistry**
Photochemical heavy-atom effects. (B12). 465344
- radiolysis**
Radiolysis of polymethylmethacrylate contained anthracene links investigation of stimulated recombination luminescence. (B14). 479266
- CONDENSER IONIZATION CHAMBERS:**
cosmic radiation
Study on dosimetric characteristics of ionizing chambers with an electrostatic relay. (E41). 488282
- CONDENSERS (ELECTRIC):**
See CAPACITORS
- CONDENSERS (STEAM):**
See STEAM CONDENSERS
- CONDENSERS (USING ICE):**
See ICE CONDENSERS
- CONDITIONED REFLEXES:**
prenatal irradiation
Avoidance of and anticipatory response to shock in prenatally X-irradiated rats. (C14). 490974
- CONDUCTION (THERMAL):**
See THERMAL CONDUCTION
- CONDUCTIVITY (ELECTRIC):**
See ELECTRIC CONDUCTIVITY
- CONDUCTIVITY (THERMAL):**
See THERMAL CONDUCTIVITY
- CONDUCTOR DEVICES:**
See also COAXIAL CABLES; CONNECTORS; ELECTRIC CABLES; SUPERCONDUCTING CABLES
configuration
Poloidal coil for thermonuclear device. (A14). 489379
- CONDUCTORS (ELECTRIC):**
See ELECTRIC CONDUCTORS
- CONFERENCES:**
See MEETINGS
- CONFIGURATION:**
See also TOROIDAL CONFIGURATION
- CONFIGURATION CONTROL:**
See also SPECTRAL SHIFT CONTROL
- CONFIGURATION INTERACTION:**
(Not for interactions of elementary particles; for which see INTERACTIONS.)
molecular orbital method
Determination of orbitals for use in configuration interaction calculations. (B12). 472426
- CONFIGURATION MIXING:**
alpha-transfer reactions
Configuration mixing effect in the α -transfer reactions. (A33). 486187
- CONFINEMENT:**
See also INERTIAL CONFINEMENT
Observation and interpretation of magnetic-field-line reconnection and tearing in a theta pinch. (A14). [Data] 467575
confinement time
Recent progress in tokamak experiments. (A14). 485779
cylindrical configuration
Magnetohydrodynamics of nearly cylindrical configurations with fixed internal currents. (A14). 467625
energy transfer
Propagation of power pulses in magnetically insulated vacuum transmission lines. (A14). 485700
hot plasma
On the stability of low frequency current driven modes in the boundary layers of gas insulated plasmas. (A14). 489289
ion wave instability
Theory of the striated corona in a theta pinch. (A14). 467596
magnetic field configurations
Alternate concepts in magnetic fusion. (A14). 489131
magnetic fields
Twisting modes. (A14). 475136
magnetic mirrors
Experimental stabilization of interchange mode by surface line tying. (A14). 478041
Magnetic mirror confinement of laser-produced LiH plasmas. (A14). 467703
magnetohydrodynamics
Low-shear magnetohydrodynamic stability. (A14). 485813
pinch effect
Magnetohydrodynamics of nearly cylindrical configurations with fixed internal currents. (A14). 467625
reviews
Alternate concepts in magnetic fusion. (A14). 489131
rotation
Continuous magnetohydrodynamic spectrum in axially symmetric rotating plasmas. (A14). 464346
scaling laws
Implications of theoretical scaling laws. (A14). 464285
vacuum polarization
Screening versus confinement. (A21). [Data] 481413
- CONFORMAL GROUPS:**
quantum field theory
A new way of describing the Lie algebras encountered in quantum field theory. (A11). 467097
quantum operators
On the four Euclidean conformal group structure of the Sturmian operator. (A11). 483026
tensors
Invariant tensors for some maximal subgroups of the conformal group of space-time. (A11). 488548
- CONGENITAL DISEASES:**
menkes
Menkes' disease in Mottled mice and man. (C21). [Data] 484558
menkes
Menkes' disease in Mottled mice and man. (C21). [Data] 484558
- CONGENITAL MALFORMATIONS:**
radiation effects
Defects of the central nervous system in Finland. IV. Associations with diagnostic x-ray examinations. (C15, C61). 487251
Offspring of patients treated for cancer in childhood. (C15). 487260
- CONIFERS:**
See also PINES
- CONJUNCTIVA:**
biological radiation effects
Tumor and tumor-like lesions of the perilimbal conjunctiva in beagles. (C14; Gamma radiation). 479830
pathology
Tumor and tumor-like lesions of the perilimbal conjunctiva in beagles. (C14; Gamma radiation). 479830
- CONNECTICUT YANKEE REACTOR:**
personnel
Training: a four factor formula. (E32). 491891
radioactive effluents
Measured liquid and airborne radioactive waste discharges at two nuclear power stations. (E32, C52). 473900

- reactor protection systems**
 Technical evaluation of the electrical, instrumentation, and control design aspects of the low temperature overpressure protection system for the Haddam Neck Nuclear Power Plant. (E32). 473901
- CONNECTING:**
 See *FASTENING*
- CONNECTIONS:**
 See *JOINTS*
- CONNECTIVE TISSUE:**
 See also *ADIPOSE TISSUE; BONE TISSUES; CARTILAGE; LIGAMENTS*
- biological radiation effects**
 Evaluation of protracted low dose rate irradiation from an acute dose survival curve. (C15; Short-lived radioisotope implants used in radiotherapy). 469702
 Pulmonary connective tissue modifications induced by internal α irradiation. Effect of time and dose on alterations following inhalation of plutonium-239 dioxide aerosol in rat. (C21). 469771
- biological regeneration**
 Regeneration of the epidermis and basement membrane of the planarian *Dugesia japonica* after total-body x irradiation. (C14). 479832
- morphological changes**
 Participation of connective tissue in radiation pathomorphism of man neoplasms. (C15). 479912
- CONNECTIVE TISSUE CELLS:**
 See also *BONE CELLS; BONE MARROW CELLS; FIBROBLASTS; LYMPHOCYTES; MACROPHAGES*
- acute irradiation**
 Effect of cobalt-60 radiation on response to endodontic therapy in monkeys. (C14, C15, C63; Simulation of effects of prior radiotherapy on subsequent dental therapy response). 461049
- CONNECTORS:**
performance testing
 Development of connectors for high voltage motors. (E22). [Data] 491753
- CONSERVATION LAWS:**
chiral symmetry
 Local conservation laws for principle chiral fields ($d=1$). (A11). 485293
electric charges
 Is the electric charge conserved. (A11). 488635
equations
 On the conservation laws for a class of systems of nonlinear evolution equations. (A11). 492461
gravitational fields
 Integrable covariant law of energy-momentum conservation for a gravitational field with the absolute parallelism structure. (A11). 485275
quantum operators
 On the conservation laws for a class of systems of nonlinear evolution equations. (A11). 492461
space-time
 Space, time and conservation laws. (A11). 463878
- CONSTRUCTION:**
 (For manufacturing see *FABRICATION*.)
- environmental impacts**
 Air quality impacts due to construction of LWR waste management facilities. (C52, C50). 494395
- excavation**
 Excavation without blasting in extension works for nuclear power station. (E32). 482754
- fault tree analysis**
 Discussion of the value of information gained by safety analysis methods. (C52). 473277
- CONSTRUCTION PERMITS:**
lawsuits
 No stop to the construction of Philippsburg II. (F22, E32). 477512
- CONSTRUCTIVE FIELD THEORY:**
 See also *LATTICE FIELD THEORY*
- euclidean space**
 Propagation functions in the field of a monopole. (A11). 467118
- CONTACT RADIOTHERAPY:**
 See *RADIOTHERAPY*
- CONTACTORS:**
 See *SWITCHES*
- CONTACTS (ELECTRIC):**
 See *ELECTRIC CONTACTS*
- CONTAINED EXPLOSIONS:**
 See also *RIO BLANCO EVENT*
- CONTAINERS:**
 See also *CALANDRIAS; CAPSULES; CASKS; DEWAR FLASKS; PRESSURE VESSELS; REACTOR VESSELS; TANKS*
 Is the steel drum the answer. (E52). 474263
construction
 Method of setting container for nuclear power plant. (E22). 473791
cooling systems
 Cooling and decontamination installation for fuel element transport containers. (E15, B16). 482583
 Device for the cooling and/or decontamination of fuel element transport containers. (E15, B16). 482593
 Method and apparatus for cooling reactor core containment vessel. (E22). 491766
corrosion protection
 Technique and equipment for anticorrosive building-up of small diameter vessels (headers, pipes and some other components). (B21). 469050
criticality
 Critical separation between subcritical clusters of low enriched UO_2 rods in water with fixed neutron poisons. (E31, E32, E15; PWR; BWR). 473856
- decontamination**
 Cooling and decontamination installation for fuel element transport containers. (E15, B16). 482583
 Device for the cooling and/or decontamination of fuel element transport containers. (E15, B16). 482593
 Device for the cooling and/or decontamination of fuel element transport containers. (E15). 482592
- depleted uranium**
 Manufacture of depleted uranium containers for medical and industrial radiation sources and for radioactive material transport. (E15). 484854
- electron beam welding**
 Electron beam welding of control rod drive components for the WWER-1000 reactor. (B21). 469080
- high vacuum**
 Results with alumina limiter and liner on the Tokamak Petula. (A14). 464256
- hydrogen isotopes**
 Storage and shipping container for gas filled pellets. (E15). 461540
- leak testing**
 Leak rate tests on PC-1 plutonium product cans sealed by welding. Final report, September 1978-January 1979. (E15). 494709
- mechanical vibrations**
 Hydroelastic vibrations of containers with a view to their earthquake behavior. (C52). 473247
- pressure suppression**
 Reactor container. (E22). 473779
- radioactive materials**
 Improvements in or relating to storage or shipping containers for fragile objects. (E15). 494713
- radioactive waste storage**
 Calculations of the diffusion of nuclides through cracks in containers made of concrete. (E52). 461958
- radioactive wastes**
 The choice of optimum packing for the transport and storage of radioactive wastes. (E15, E51). 476929
 Container for the transport and dosable removal of radioactive and for toxic media. (E15). 470358
- radioisotopes**
 Container for the transport and dosable removal of radioactive and for toxic media. (E15). 470358
- reactor safety**
 Reactor container. (E22). 473779
- safety**
 Reactor cooling system. (E35). 491987
- shields**
 Shielding wall for nuclear reactor container. (E22). 491736
- specifications**
 Closable container with a self-locking lid. (E15). 463551
 Drum of storing fuel assemblies of nuclear reactor. (E22; Patent). 480580
 Nuclear fuel powder flow characterization. (B23). 494063
 Nuclear waste storage container with metal matrix. (E52; Patent). 471090
- standardization**
 Alternative to stop the proliferation of low-level TRU waste containers. (E52). 461978
- stress analysis**
 Stress analysis of the vacuum vessel of ASDEX. (A14). 464382
- stresses**
 Thermonuclear device. (A14; eddy current protection). 489323
- temperature control**
 Air conditioning device within reactor container. (E22). 470546
- thermal insulation**
 Container for irradiated fuel. (E15). 482586
- underground storage**
 Clay particle redistribution and piping phenomena in bentonite/quartz buffer material due to high hydraulic gradients. (E52, B31). [Data] 461979
- vehicles**
 Wagon for the transport of fuel element transport containers. (E15). 482585
- CONTAINMENT:**
 (Means and methods for preventing the escape of radioactive materials to the biosphere, particularly in the case of reactor accidents.)
 See also *CONTAINMENT BUILDINGS; CONTAINMENT SHELLS; CONTAINMENT SPRAY SYSTEMS; CONTAINMENT SYSTEMS*
- air conditioning**
 Air conditioning device within reactor container. (E22). 470546
- blowdown**
 Theoretical studies on the free-blowing process of the vent pipes in the pressure suppression system. (C52). 466273
- configuration**
 Container penetration in nuclear power plant. (E22). 477124
- doors**
 Locks at reactor safety containments of nuclear power plants. (E22). 470519
- electric cables**
 Cable ducts in reactor containments of nuclear power plants. (E22). 470524
- fracture properties**
 Safety of the pressure containment of LWR reactors. (E22, E31, E32). 470535
- openings**
 Draft regulation amendment KTA 3403. (E31, E32). 470616
- pressure release**
 Reactor building. (E32). 466690

- pwr type reactors**
 Probabilistic treatment of a PWR containment integrity analysis. (E32). 463636
- reactor safety experiments**
 Reactor safety experiments at the Marviken nuclear power station. (C52). 469965
- safety analysis**
 Theoretical investigation of the influence of water entrainment factors in containment analyses. (E31, E32). 477196
- testing**
 Automated containment tests cut downtime, save \$2.5 m. (F22). 474360
- water cooled reactors**
 Tougher containment design goals. (E32). 473908
- CONTAINMENT BUILDINGS:**
- bellows**
 Penetration bellows for a nuclear reactor container and the method of its leak test. (E22). 491761
- explosions**
 A review of explosive characteristics of prestressed secondary containments near the ultimate load. (E22). 461624
- feasibility studies**
 Feasibility studies on the vacuum outer containment of a fusion power plant. (A14; FINTOR D). 474955
- impact strength**
 Numerical simulation of tornado-borne missile impact on reinforced concrete targets. (E22). 477134
- Wind field and trajectory models for tornado-propelled objects. (C52). 482195
- liners**
 Reactor container. (E22). 473780
- mechanical vibrations**
 Study of vibration analysis for nuclear reactor building. (E22). 477115
- Vibration experiment of reactor building for advanced thermal reactor "Fugen". (E34). 477269
- missile protection**
 Numerical simulation of tornado-borne missile impact on reinforced concrete targets. (E22). 477134
- Perforation of a reinforced concrete slab by a rigid projectile. (E22). 463571
- Pipe line construction for reactor containment buildings. (E22). 477110
- Wind field and trajectory models for tornado-propelled objects. (C52). 482195
- pressure suppression**
 Pressure suppression device. (E33). 470720
- quality assurance**
 Statistical quality evaluation of anchor weldments with the steel lining in concrete containment vessels for nuclear reactors. (E22). 461620
- reliability**
 Concept for the reliability assessment of the containment of a PWR. (C52, E32). 480138
- risk analysis**
 Containment design options for the HTGR: an application of probabilistic risk assessment. (C52, E33). 487405
- seals**
 Device for providing a leak-tight penetration for electric cables through a reactor vault roof. (E35; Patent; LMFBR). 480682
- seismic effects**
 Accident and seismic containment reliability. (C52). 473223
- Evaluation of in situ testing methods for high-amplitude, dynamic property determination. Final report. (B31, C52). 476398
- Structural test and analysis on the seismic behavior of the reinforced concrete reactor building. (C52). [Data] 491176
- stress analysis**
 On-line structural response analysis: using the extended Kalman estimator/identifier. (C52). 487433
- vents**
 Reactor container facility. (E22). 470557
- washout**
 Device for inhibiting discharge and diffusion of radioactivity. (E22). 473785
- CONTAINMENT SHELLS:**
- Double containment shell for nuclear power plants. (E32). 482769
- Operating experience of nuclear reactors - its influence on plant structures. (E34). 470734
- construction**
 Secondary containment structure at Narora Atomic Power Plant, Uttar Pradesh. (E13). 466495
- cracks**
 Shear transfer across cracks in reinforced concrete. (B24, E22). 490691
- failures**
 Dynamic plastic buckling of shells: a reconsideration of the Vaughan-Florence analysis. (E22). 487988
- flexibility**
 Effect of torus wall flexibility on hydro-structural interaction in BWR containment system. (C52, E31). 491170
- in-service inspection**
 Leakage tests on reactor containments. (E32). 484961
- leak testing**
 Computerized integrated leak rate testing. (E22). 473797
- Leakage tests on reactor containments. (E32). 484961
- liners**
 Elementary catastrophe theory modelling of an end-loading ring in a rigid cavity. (E22). 491725
- mechanical vibrations**
 Fluid-structural vibrations of a spherical BWR-containment with pressure suppression system. (E31). 488036
- monitoring**
 Post-tensioning system surveillance program. (C52). 476688
- pressure gradients**
 Applicability of flat plate methods in determining fluid/structure interaction effects in BWR pressure suppression systems. (C52, E31). 494410
- prestressed concrete**
 Containment vessel for the Madras Atomic Power Project. (E13). 470328
- Present status and problems of containment vessels for nuclear power plants. (E22). 491743
- Secondary containment structure at Narora Atomic Power Plant, Uttar Pradesh. (E13). 466495
- pulsations**
 Dynamic behaviour of the spherical containment shell of a boiling water reactor during condensation of steam in the pressure suppression system. (E31). 477202
- reliability**
 Reliability-based design of nuclear containment structures. (E32). 461709
- Safety analysis of nuclear concrete containment structures. (C52, E22). 487553
- seals**
 Reactor container. (E31). 473862
- seismic effects**
 A probabilistic seismic analysis of containment liner integrity. (C52). 461204
- steels**
 Material used in nuclear power plants - experience and development from the material producer's point of view. (B22, E22). 481838
- stress analysis**
 Buckling criteria and application of criteria to design of steel containment shell. (E31, E32; PWR; BWR). 491872
- Dynamic elastic-plastic response of a containment vessel to fluid pressure pulses. (E22). 487995
- Dynamic plastic buckling of shells: a reconsideration of the Vaughan-Florence analysis. (E22). 487988
- Effect of torus wall flexibility on hydro-structural interaction in BWR containment system. (C52, E31). 491170
- Effects of torus wall flexibility on forces in the Mark I BWR pressure suppression system: extended analyses under SRV T-quencher loading. (E31). 488038
- Effects of torus wall flexibility on forces in the Mark I boiling water reactor pressure suppression system. Final report. (C52, E31). 480106
- Experimental investigations and calculations of small-diameter electrical penetrations in prestressed reinforced-concrete NPP containments. (E22). 466614
- welded joints**
 Study on the application of thickened welds without post weld heat treatment for containment vessels. (E32). [Data] 491914
- CONTAINMENT SPRAY SYSTEMS:**
- additives**
 Comparative evaluation of containment spray additives: detrimental impacts of an inadvertent spray actuation. (E31, E32; BWR; PWR). 488049
- performance**
 Size distribution of drops from containment spray nozzles. (E32; PWR). 466686
- performance testing**
 Heat removal effect of reactor container spray. (E22). 463580
- Method for testing the containment spray system of a nuclear reactor. (E22). 463591
- CONTAINMENT SYSTEMS:**
 See also CONTAINMENT SPRAY SYSTEMS
- Analysis and testing of steam chugging in pressure systems. Interim report. (C52, E31; BWR). 461163
- Pool-type LMFBR Plant 1000 MWe phase a-extension-1 design. Part I. Executive summary. Interim report. (E35). 461761
- aerosols**
 Experimental investigation of aerosol behavior in a post-LMFBR accident reactor containment atmosphere. (C52, E35). 487606
- condensation chambers**
 Effects of torus wall flexibility on forces in the Mark I Boiling Water Reactor Pressure Suppression System. Part I. (C52, E31). 469937
- control systems**
 Tritium monitoring at the Sandia Tritium Research Laboratory. (B33, E41). 476481
- depressurization**
 Containment negative pressure evaluation. (E31, E32; BWR; PWR). 470652
- heat transfer**
 BEACON/MOD2A: a computer program for subcompartment analysis of nuclear reactor containment. A user's manual. (C52, E32; PWR). 487607
- hydrodynamics**
 Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). 469975
- leak testing**
 Prompt report of leak test for containment vessel of Joyo reactor after sodium charge. (E35). 470760
- leaks**
 The containment safety of the Dragon Reactor. (E33). 488087

- neutron flux**
 Calculations of the neutron environment inside a PWR containment. (E32). 461702
 Measured distribution of neutrons inside containment of a PWR. (E32). 461693
- neutron spectra**
 Survey of neutrons inside the containment of a pressurized water reactor. (E32). 461701
- power reactors**
 Nuclear reactor protective structure. (E22). 491756
- pressure gradients**
 Analysis of steam chugging phenomena. Volume 2: user's manual for the CHUG1 computer program. (C52, E31; BWR). 469959
 Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). 469975
 Analysis of steam chugging phenomena. Volume 1: a fundamental thermalhydraulic model to predict steam chugging phenomena. (C52, E31; BWR). 469958
- CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). 487496
- pressure suppression**
 Modeling vertical loads in pools resulting from fluid injection. (C52, E31). 480093
- radiation streaming**
 Calculations of the neutron environment inside a PWR containment. (E32). 461702
- spatial distribution**
 CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). 487496
- specifications**
 The containment safety of the Dragon Reactor. (E33). 488087
- stress analysis**
 Analysis to justify increased allowable stresses for the Mark I vent header when subjected to pool swell impact loading. (E31; BWR). 461680
- Technical bases for the SRSS method of combining dynamic responses. (E31; BWR). 461687
- Water impact tests of rigid and flexible cylinders. (C52, E31). 482197
- two-phase flow**
 BEACON/MOD2A: a computer program for subcompartment analysis of nuclear reactor containment. A user's manual. (C52, E32; PWR). 487607
- CONTAMINATION:**
 (For radioactive contamination only; see also POLLUTION.)
 See also *SURFACE CONTAMINATION*
- computer calculations**
 Investigation of generation of liquid radioactive wastes and possibilities to reduce their volume in NPP Paks Pt. 2. (E51). 463771
- luminous paints**
 Contamination in an office and exposure of office workers. (C51). 491110
- measuring methods**
 Electrochemical instrument for the measurement of oxygen concentrations. (E42). 466853
- nuclear explosions**
 Data on the radioactive contamination of the biosphere. (B33). [Data] 494246
- nuclear power plants**
 Data on the radioactive contamination of the biosphere. (B33). [Data] 494246
- personnel**
 Evaluation of radiation doses to body tissues from internal contamination due to occupational exposure. The assessment of internal contamination resulting from recurrent or prolonged uptakes. (C55). 466361
- pinex**
 Pine needle activity and the washing effect as a measure of fallout. (B31). 465797
- radiation doses**
 Evaluation of radiation doses to body tissues from internal contamination due to occupational exposure. The assessment of internal contamination resulting from recurrent or prolonged uptakes. (C55). 466361
- risk analysis**
 Potential radiation dose to man from recycle of metals reclaimed from a decommissioned nuclear power plant. (C21, F11). 469780
- t codes**
 A guide to TIRION 4 - a computer code for calculating the consequences of releasing radioactive material to the atmosphere. (C52). 463365
- tritium**
 Monitoring experiences with tritium in JAERI. (C52, C21). 491214
- CONTAMINATION (INTERNAL):**
 See *RADIONUCLIDE KINETICS*
- CONTAMINATION (SURFACE):**
 See *SURFACE CONTAMINATION*
- CONTAMINATION REGULATIONS:**
 See also *MAXIMUM ACCEPTABLE CONTAMINATION*
- CONTENT ANALYSIS:**
 See *CHEMICAL ANALYSIS*
- CONTINUOUS IRRADIATION:**
 See *CHRONIC IRRADIATION*
- CONTINUUM SHELL MODEL:**
 See *SHELL MODELS*
- CONTRAST MEDIA:**
 See also *HIPPURAN; IOGLYCAMIC ACID; THOROTRAST*
- aqueous solutions**
 Further developments in water-soluble myelography 1974-1977. Chapter 10. (C61). 487662
- barium sulfates**
 The double contrast meal - new high density barium sulphate powders, and reply by James, W.B. (C61). 494501
 Scanning electron microscopy of the spreading of barium sulfate suspensions on the gastric mucosa of the rat. (C61). 470046
- blood**
 Effect of ionic and non-ionic contrast media on whole blood viscosity, plasma viscosity and hematocrit in vitro. (C61). 491269
 Effect of metrizamide on whole blood oxygen affinity. (C61). 473333
- blood circulation**
 Effect of meglumine metrizoate and metrizamide on the microcirculation. (C61). 491273
- blood flow**
 Arterial and venous blood pressure and blood flow following femoral angiography with a new non-ionic contrast medium. (C61). 491285
- blood plasma**
 Effect of ionic and non-ionic contrast media on whole blood viscosity, plasma viscosity and hematocrit in vitro. (C61). 491269
- comparative evaluations**
 Amipaque as contrast medium for intraosseous phlebography. (C61). 473391
 A comparative trial of two oral cholecystographic contrast media - iocetamic acid (cholebrin) and iopanoic acid (telepaque). (C61). 476763
 Ioxaglate, a new low osmolar contrast medium used in femoral angiography. (C61). [Data] 463454
- erythrocytes**
 Effect of ionic and non-ionic contrast media on morphology of human erythrocytes. (C61). 473332
- feces**
 Radio-opaque pellets as faecal markers for faecal fat estimation in malabsorption. (C62). 491353
- intravenous injection**
 Blood inflow into intra-arterial catheters following injection of contrast medium. (C61). 480214
- mucous membranes**
 Scanning electron microscopy of the spreading of barium sulfate suspensions on the gastric mucosa of the rat. (C61). 470046
- pain**
 Amipaque as contrast medium for intraosseous phlebography. (C61). 473391
- quantity ratio**
 The effect of contrast volume on the radiographic demonstration of the gall bladder and bile duct. (C61). 473352
- stomach**
 The double contrast meal - new high density barium sulphate powders, and reply by James, W.B. (C61). 494501
- tantalum**
 Radiographic examination of tracheal strictures by means of powdered tantalum. (C61). 473387
- CONTROL:**
 See also *OPTIMAL CONTROL; QUALITY CONTROL; REMOTE CONTROL; TEMPERATURE CONTROL*
- CONTROL (INSPECTION):**
 See *INSPECTION*
- CONTROL (RADIOACTIVITY):**
 See *RADIATION MONITORING*
- CONTROL ELEMENTS:**
 See also *REGULATING RODS; SCRAM RODS*
- System for guiding the control rod. (E24). 484932
- burnable poisons**
 Burnable neutron absorber rod. (E24). 466639
- bwr type reactors**
 Control rods. (E24). 477183
- configuration**
 Control rod. (E24). 473837
- construction**
 Fuel, breeder, or absorber element with elements for fission gas removal. (E23). 461635
- displacement gages**
 Application of the digital rod-position indication system for establishment of control rod drive-line dynamic characteristics in a PWR. (E24, E32). 466632
 Magneto-sonic type rod position monitoring system for nuclear power plants. (E24, E32, E42). 466625
- extrapolation length**
 Calculation of the extrapolation length in shifting control elements within the control channel. (E21). 470501
- fabrication**
 Performance predictions and manufacturing concerns of burnable poison rods. (B25, B22, E24). 469418
 Tool to make outward projections in tubular pieces. (E24). 484936
- hydraulic control devices**
 Reactor control system. (E24). 470579
- joints**
 Improved guide tube bulge tool. (E23, E24). 477150
- limfr type reactors**
 Safety arrangement for nuclear reactors. (E24). 482723
- mechanical structures**
 Control rod. (E24). 470576
- mechanical vibrations**
 Calculation of the spectral density of neutron flux fluctuations due to stochastic oscillations of the control elements in a nuclear reactor. 3. (E21). 477106
 Experimental investigation of flow-induced control-element movements by noise analysis. (E24). 477170

- A one-dimensional one-group model for a nuclear reactor with stochastically vibrating control elements. (E21). 463564
- neutron flux flattening**
- Control rod for nuclear power plant. (E24). 491807
- performance**
- Performance predictions and manufacturing concerns of burnable poison rods. (B25, B22, E24). 469418
- pwr type reactors**
- Control rods for a nuclear reactor with fuel elements having a detachably fixed system coupled to a rod. (E24). 491800
- reactivity worths**
- A method for the optimisation of the control rod configuration in a reactor. (E21). 480534
- reliability**
- Control rod. (E24). 491805
- spatial distribution**
- A method for the optimisation of the control rod configuration in a reactor. (E21). 480534
- specifications**
- Variable flow control for a nuclear reactor control rod. (E24, E35; Patent; LMFBR). 473822
- thorium**
- Fuel assembly. (E23). 470572
- CONTROL EQUIPMENT:**
See also CRYOSTATS; ELECTRIC CONTROLLERS; FLOW REGULATORS; FLUIDIC CONTROL DEVICES; PRESSURE REGULATORS; VALVES
- diagrams**
- Temperature controller by continuous heating of a metallic mass for the 77-300°K range. (E42). 482873
- microprocessors**
- Microcomputer system for controlling fuel rod length. (E42, E33; HTGR). 477443
- Microcomputer-based multiplexer for performing depth profiling with an Auger electron spectrometer. (A12). 474641
- pebble bed reactors**
- Method and arrangement for the realization of conducting material bodies. (E17, E33). 466570
- specifications**
- Apparatus for controlling coolant level in a liquid-metal-cooled nuclear reactor. (E35; Patent). 488146
- temperature control**
- Temperature controller by continuous heating of a metallic mass for the 77-300°K range. (E42). 482873
- CONTROL ROD DRIVES:**
- computers**
- Control system for nuclear power plant. (E24). 491806
- cooling systems**
- Hydraulic system for the drive of control rod. (E24). 473834
- electric motors**
- Electromotive control rod drive for nuclear reactors. (E24). 477156
- fastening**
- Control-rod driving mechanism. (E24). 470590
- hydraulic control devices**
- Hydraulic system for the drive of control rod. (E24). 473834
- hydraulics**
- Control-rod driving mechanism. (E24). 470590
- joints**
- Control rod devices. (E24). 470598
- lmfbr type reactors**
- Control rod drive for a nuclear reactor. (E35). 477291
- pebble bed reactors**
- Control rod for a nuclear reactor with a pebble bed of spherical operating elements. (E24, E33). 466642
- Drive arrangement for a scraw-shaped or helical absorber rod. (E33). 473931
- performance**
- Application of the digital rod-position indication system for establishment of control rod drive-line dynamic characteristics in a PWR. (E24, E32). 466632
- remote handling**
- Nuclear reactor fuel assembly. (E24). 482727
- rod ejection accidents**
- Ejection retarding system for control rods. (E24). 470589
- seals**
- Control rod drives for nuclear power plant. (E24). 477180
- switches**
- Use of reed switches for position indicator systems. (E24). 466628
- transducers**
- Position sensor without any mechanical contact. (E24). 484931
- CONTROL RODS:**
See CONTROL ELEMENTS
- CONTROL SYSTEMS:**
(For automated processes including feedback.)
See also ON-LINE CONTROL SYSTEMS; REACTOR CONTROL SYSTEMS
- cathode ray tubes**
- Power station control room and desk design, alarm system and experience in the use of cathode-ray-tube displays. (E24). 477179
- cyclotrons**
- Computer control system for the RCNP AVF-cyclotron. (E16). 482613
- heavy liquid bubble chambers**
- Control electronics for the SKAT propane-freon bubble chamber. (E41). 492049
- multi-channel analyzers**
- Control system of memory and operation regime of the ICA-70-4K multi-channel analyzer. (E42). 495166
- performance**
- Experience with the VICKSI-control-system. (E16). 494856
- storage rings**
- Computer control system for Photon Factory at KEK. (E16). 482615
- CONTROL THEORY (REACTOR):**
See REACTOR KINETICS
- CONTROLLED AREAS:**
(Areas designated by radiation protection regulations for special monitoring.)
- contamination**
- Simple method for the air monitoring of xenon-133. (B33, C62; In restricted areas of nuclear medical facilities). 472874
- licensing procedures**
- A permit-to-work certification scheme for use in health building laboratories. (C53). 473284
- radioactivity**
- Monitoring system of the Tritium Research Laboratory, Sandia Laboratories, Livermore, CA. (B33, E41). 476496
- safety standards**
- A permit-to-work certification scheme for use in health building laboratories. (C53). 473284
- uvj**
- Demarcating controlled areas. (C54). 494456
- CONTROLLED ATMOSPHERES:**
See also COVER GAS
- Controlling the clean room atmosphere. (C54). 494458
- CONTROLLED TERMINOLOGY:**
See STANDARDIZED TERMINOLOGY
- CONVECTION:**
(Heat transfer by convection.)
See also FORCED CONVECTION; NATURAL CONVECTION
- Non-stationary and non-established convection. (E11). 491459
- instability**
- Effect of suspended particles on the thermal convection instability in hydromagnetics. (A15, A13). 483578
- one-dimensional calculations**
- New numerical methods for solving convection problems. (E11). 470304
- oscillations**
- Rayleigh - Benard instability in nonreactive binary fluids. II. Results. (A13). 488985
- Rayleigh - Benard instability in nonreactive binary fluids. I. Theory. (A13). 488984
- thermodynamics**
- Rayleigh - Benard instability in nonreactive binary fluids. I. Theory. (A13). 488984
- CONVECTIVE INSTABILITIES:**
- Turbulent convective transport in a plasma. (A14). 483305
- absolute instabilities**
- "Convective" loss-cone instability is absolute. (A14). 478046
- alfven waves**
- Formation of convective cells by modulational instability of drift Alfven waves. (A14). 489371
- convection**
- Convective transport in a turbulent plasma. (A14). 471608
- turbulence**
- The origin of supergranulation and giant cells in the solar convective zone. (A15). 483561
- CONVERSION:**
See also DIRECT ENERGY CONVERSION; ENERGY CONVERSION; INTERNAL CONVERSION; K CONVERSION; L CONVERSION; THERMIONIC CONVERSION
- CONVERSION (NUCLEAR FUEL):**
See NUCLEAR FUEL CONVERSION
- CONVERSION RATIO:**
See also BREEDING RATIO
- coincidence methods**
- Experimental methods developed for measuring the initial conversion ratios. (E21). 480551
- CONVERTERS (ANALOG-DIGITAL):**
See ANALOG-TO-DIGITAL CONVERTERS
- CONVERTERS (DIGITAL-ANALOG):**
See DIGITAL-TO-ANALOG CONVERTERS
- CONVERTERS (IMAGE):**
See IMAGE CONVERTERS
- CONVERTERS (PULSE):**
See PULSE CONVERTERS
- COOLANT CLEANUP SYSTEMS:**
Procedure and arrangement for the purification of coolants. (E22). 470525
- after-heat removal**
- System of cooling and purifying coolant. (E31). 470612
- cold traps**
- Performance analysis of mesh-packed cold traps. (E13). 463538
- decontamination**
- Reactor coolant cleanup device. (E22). 491765
- inorganic ion exchangers**
- Coolant cleanup system for nuclear power plant. (E31). 473876
- organic ion exchangers**
- Coolant cleanup system for nuclear power plant. (E31). 473876
- performance**
- Refueling outage water clarity improvement study. Final report. (E31, E32; PWR; BWR). 488028
- sodium**
- On primary and secondary sodium purification systems of fast reactors. (E35). 466715
- tritium**
- Tritiated water treatment process. (C54). 461341
- COOLANT LOOPS:**
(For reactors use REACTOR COOLING SYSTEMS or IN PILE LOOPS.)

- bwr type reactors**
The pressurized and boiling water loops BOWAL and PRIL for boiling mixing studies of the heat transfer division JRC Ispra Italy. (E31, E32). 491851
- pwr type reactors**
The pressurized and boiling water loops BOWAL and PRIL for boiling mixing studies of the heat transfer division JRC Ispra Italy. (E31, E32). 491851
- sodium**
The behaviour of radioactive isotopes in liquid metal cooled fast reactors. (E35). 492016
- sodium hydrides**
Analysis of hydride and oxide deposition and resolution in sodium in relation to plugging meter behaviour. (E42, B11, E35). 482887
- sodium oxides**
Analysis of hydride and oxide deposition and resolution in sodium in relation to plugging meter behaviour. (E42, B11, E35). 482887
- spatial dose distributions**
The behaviour of radioactive isotopes in liquid metal cooled fast reactors. (E35). 492016
- surface contamination**
The behaviour of radioactive isotopes in liquid metal cooled fast reactors. (E35). 492016
- transients**
Transients in cooling water systems and their numerical simulation. (E22). 482708
- COOLANT-FUEL INTERACTIONS:**
See FUEL-COOLANT INTERACTIONS
- COOLANTS:**
(See also specific coolant materials.)
Duty cycle and coolant temperature trade study for tokamak power plants. (A14). 474988
- boiling**
Study on parameters of self-oscillations of the coolant flow rate in an evaporating channel of a boiling-type reactor. (E33). 484973
- decontamination**
Method to decontaminate radioactive water in the presence of impurity substances. (C54). 461339
- flow rate**
Fuel supporting metal fitting. (E31). 477208
- fluid flow**
Comparison of coolant flow predictions with those measured on a full-scale mockup of pebble bed reactor core. (E33). 480662
- freezing**
Cooling water freezer. (E34). 473947
- high temperature**
Study of the state of the coolant in the function of the local temperature fluctuation. (E22). 473782
- lead**
Cooling process for fuel rods of fuel elements for nuclear power generation. (E35). 470771
- nitrogen oxides**
Heat transfer and hydraulic resistance when cooling the turbulent chemically reacting N_2O_4 reversible $2NO_2$ reversible $2NO + O_2$ flow in a tube at high wall temperatures. (E11). 487821
- Heat transfer on cooling the turbulent N_2O_4 reversible $2NO_2$ reversible $2NO + O_2$ flow in a tube under conditions of the "frozen" second-stage reaction in a laminar under-layer. (E11). 487820
- Main recommendations for the calculation of regenerators of a NPP with dissociating coolants. (E11). 487822
- Present state of heat exchange and hydrodynamics in cooling NPP coolants. (E11). 487819
- performance**
Nuclear performance of molten salt fusion-fission symbiotic systems for catalyzed DD and DT reactors. (A14). 475118
- purification**
Coolant cleanup system in reactor. (E31). 473851
- Method and apparatus for the decontamination and cooling of nuclear power plant. (E22). 473795
- radiation chemistry**
Radiation chemistry in gas-cooled nuclear reactors. (B14, E33). 484112
- radiation monitoring**
Quantitative analysis of BWR primary coolant by liquid chromatography. (B11, E31). 468645
- water chemistry**
Quantitative analysis of BWR primary coolant by liquid chromatography. (B11, E31). 468645
- water vapor**
Present state of heat exchange and hydrodynamics in cooling NPP coolants. (E11). 487819
- COOLERS:**
See HEAT EXCHANGERS
- COOLING:**
See also EVAPORATIVE COOLING; FILM COOLING; HELIUM DILUTION REFRIGERATION; REFRIGERATION; SPLAT COOLING; SPRAY COOLING
- seawater**
Sea water for cooling Koeberg. (E32). 470654
- steam condensers**
Sea water for cooling Koeberg. (E32). 470654
- COOLING PONDS:**
See WATER RESERVOIRS
- COOLING SYSTEM (REACTOR):**
See REACTOR COOLING SYSTEMS
- COOLING SYSTEMS:**
See also CLOSED-CYCLE COOLING SYSTEMS; INTEGRATED COOLING SYSTEMS; PRIMARY COOLANT CIRCUITS; REACTOR COOLING SYSTEMS; SECONDARY COOLANT CIRCUITS; SHROUDS
- Economics of installation and operation of alternative screening devices pursuant to Sect. 316(b). (C52). 469899
- Fish protection at steam-electric power plants: alternative screening devices. (C52). 469900
- Ten-month recolonization of the k-area cooling water system by the Asiatic clam *Corbicula fluminea*. (B32). 479663
- chemical effluents**
Analysis of populations of boring and fouling organisms in the vicinity of Oyster Creek Nuclear Generating Station. Annual progress report, September 1, 1977 - August 31, 1978. (C52, B32, E22). [Data] 487501
- corrosion**
Prevention of serious impurity penetration into water-steam circuits. (E30, B12, B15). 466649
- environment**
Cooling Systems Program. (B32). 479659
- sodium**
Cooling system for cooling a set of fuel elements in nuclear reactor containment vessels. (E22). 470537
- specifications**
High temperature refrigerator. (E13; Patent). 470348
- temperature control**
Control device for liquid metal temperature. (E24). 470597
- thermal effluents**
Analysis of populations of boring and fouling organisms in the vicinity of Oyster Creek Nuclear Generating Station. Annual progress report, September 1, 1977 - August 31, 1978. (C52, B32, E22). [Data] 487501
- two-phase flow**
A large superconducting dipole cooled by forced circulation of two phase helium. (E12). 482559
- vapor condensation**
Air condensation plants. (E22). 473783
- COOLING TOWERS:**
- atmospheres**
The influence of atmospheric conditions on the cooling tower plume of nuclear power station. (E11). 484822
- chemical effluents**
Asbestos in cooling-tower waters. Final report. (C52, E22; Source, hazards, and recommendations at nuclear power plants). 487521
- Cooling tower drift studies at the Paducah, Kentucky Gaseous Diffusion Plant. (C52; Transport of drift-derived chromium in terrestrial ecosystems). [Data] 461304
- construction**
A construction method of reinforced-concrete very high stacks and natural draft cooling towers. (E22). 477123
- emission**
Cooling tower drift: comprehensive case study. (C52). 480096
- environment**
Other impacts. (C52, B32, C21). [Data] 494387
- Potential weather modification caused by waste heat release from large dry cooling towers. (C52). 487517
- health hazards**
Other impacts. (C52, B32, C21). [Data] 494387
- operation**
Cooling towers. (E22). 470508
- plumes**
River water heat-up due to nuclear power plant cooling water and its consequences. (C52). 469920
- pwr type reactors**
Analysis of the operation of atmospheric coolants. (E32). 491879
- radiant heat transfer**
On the two-fold analogy between thermal and mass exchange at water evaporation into air. (E22). 487998
- seismic effects**
The dynamics of natural-draft cooling towers under seismic excitation. (E22). 470542
- water chemistry**
Water treatment for the drycooling tower for the 300 MW THTR. (E33, B12). 488102
- COOLING WATER CHEM. TREATMENT:**
See WATER CHEMISTRY
- COOPER REACTOR:**
- reactor accidents**
Selected safety-related events reported in January and February 1979. (C52, E31, E32). 487437
- COORDINATED RESEARCH PROGRAMS:**
(Research based on a common plan but carried out in various locations. This descriptor to be used in coordination with descriptors for the institutions or countries involved.)
- earth atmosphere**
The Spanish national programme of balloons and sounding rockets. (B33). 484394
- netherlands**
Annual report 1978. (F61, E35, E36). 485262
- COPOLYMERIZATION:**
(Polymerization of molecules of different types.)
Coating compositions hardened by radiations. (B14). 472522
- Coating compositions radiation hardening. (B14). 472521
- emulsions**
Bubbles behavior of the mixture of tetrafluoroethylene and propylene in emulsifier-water system under pressure. (D23). 470280
- pilot plants**
Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene in flow system. (6). (D23). 470281
- COPOLYMERS:**
- chemical radiation effects**
Elastomeric electron beam-cured coatings: structure-property relationships. II. Chain transfer agents. (B14, B24). 486759

- Radical transformations in the process of high-temperature irradiation of polymethylmethacrylate copolymers. (B14). 479256
- Study of ionizing radiation effect on structure of ethylene copolymers with vinyl silanes. (B14). 479215
- polymerization**
- Copolymers for soft hydrophilic contact lenses: development and investigations. (B14). 481736
- radiation effects**
- Effect of gamma radiation on some properties of ethylene copolymers with vinyl acetate. (B14, B25). 479287
- radioluminescence**
- Radiothermoluminescence of ionomers: the copolymers of methacrylic acid with styrene and ethylene containing UO_2^{2+} ions. Temperature deactivation of UO_2^{2+} excited states. (B14). 493823
- radiolysis**
- Radiolysis of polymethylmethacrylate contained anthracene links investigation of stimulated recombination luminescence. (B14). 479266
- COPPER:**
- Comparative reflectance measurements on laser-produced plasmas at 1.06 and 0.53 μm . (A14). 489252
- Field-ion microscope detection of ultra-fine defects in neutron-irradiated Fe-0.34 pct Cu alloy. (B25, B22, E22). 469410
- Influence of impurity-defect interactions on radiation hardening and embrittlement. (B25, E22). 479557
- absorption spectroscopy**
- A comparative study of mineralization methods applied to the determination of trace metals in suspensions by atomic absorption. (B11). [Data] 493483
- activation analysis**
- Determination of trace elements in poly(methyl methacrylate) by neutron activation analysis. (B11; Neutron reactions). [Data] 478829
- Determination of Pd, Ag, Pt and Au in electrolytic copper by activation with high-energy photons. (B11). 484005
- Elemental composition of platelets. Part II. Water content of normal human platelets and measurements of their concentrations of Cu, Fe, K, and Zn by neutron activation analysis. (B11; Neutrons). 486521
- Evaluation of some procedures relevant to the determination of trace elemental components in biological materials by destructive neutron activation analysis. (B11). 468595
- Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- adsorption**
- ELS vibrational study of carbon monoxide adsorbed on the Cu(110) surface. (B22). 476348
- Heats of chemisorption of O_2 , H_2 , CO , CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- Hydrogen diffusion and trapping in bcc and fcc metals. (B22). 486915
- Solubility enhancement in ion implanted Cu alloys. (B21, B22). 479355
- alpha reactions**
- Fragmentation of relativistic light nuclei: longitudinal and transverse momentum distributions. (A22, A34; 0.93 to 2.88 GeV/c, cross sections, limiting fragmentation). 468152
- Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194
- annihilation**
- Positron annihilation and Moessbauer studies on $\text{Cu}_{\text{sub}}(\text{x})\text{Zn}_{\text{sub}}(1-\text{x})$ alloys. (A13). 477868
- antiproton reactions**
- Production of muon pairs by 225-GeV/c π^- , K^- , p^- beams on nuclear targets. (A22). 478512
- argon ions**
- Energy distributions of fast ionized recoils ejected from crystals under ion bombardment. (A13). 467361
- Secondary ion energy per unit mass spectra from polycrystalline copper. (E41). 461858
- argon 40 reactions**
- Light fragment production and associated multiplicities from collisions of 1.85 GeV/nucleon ^{40}Ar . (A34, A22; Differential cross sections, reaction mechanisms). 468451
- auger effect**
- Copper $\text{M}_{2,3}\text{V}$ Auger line shape. (B22). 469196
- biological effects**
- Copper sensitivity of the Northern anchovy, *Engraulis mordax*, during its early life history. (C52). [Data] 487566
- cadmium 111**
- Nuclear quadrupole relaxation in solid Cu host doped with Rh. (A13). 488949
- catalysis**
- Catalytic removal of ozone produced in radioactive media. (E52, C52). 480895
- charged-particle transport**
- Electronic stopping cross sections of 50-300-keV He and Li ions. (A32). 478590
- chromatography**
- Chromatography of metal ions with a triazine chelating resin. (B11). 486556
- coatings**
- Ion plating onto plastics. (A13). 488941
- cold working**
- Cold formed wire connector. (E10). 491443
- creep**
- Creep rate dependence on stress for metals with fcc lattice. (B22). 469259
- On the morphological change of solids by vacancy diffusion under the effect of interfacial tensions and applied stresses. (B22). [Data] 493946
- desorption**
- The effect of bakeout temperature on the electron and ion induced gas desorption coefficients of some technological materials. (B22, E16, A14). [Data] 490552
- deuteron reactions**
- Absolute cross sections for ^{64}Cu and ^{63}Cu produced by deuteron-induced reactions in copper. (A34). 468466
- diffusion**
- Impurity diffusion of ^{113}Sn and ^{124}Sb in copper. (A13). 489010
- Impurity diffusion of ^{114}In in Cu. (B12). 478976
- Lattice and grain boundary diffusion of copper in γ -iron. (A13). [Data] 489020
- Metallurgical applications of ion implantation.** (B21, B22, B23, A17). 481782
- Precipitation processes in implanted materials.** (B22, B24). 465577
- dislocation pinning**
- Thermal variation of dislocation pinning by point defects created by electron bombardment in copper and silver. (B25). 472757
- doppler broadening**
- Low-temperature effects in metals as observed by positron annihilation. (B21, B22). 486854
- Positron annihilation measurement of the vacancy formation enthalpy in copper. (B22; 25 to 1040°C). 486882
- electron diffraction**
- Fine structure in elastic-electron-yield spectra at transition-metal core energies. (A12). 481028
- electron emission**
- Ion-electron emission from spherical targets. (A13). [Data] 471441
- Secondary-electron emission by energetic ions incident on metal surfaces. (B25). [Data] 465720
- electronic structure**
- Copper $\text{M}_{2,3}\text{V}$ Auger line shape. (B22). 469196
- emission spectroscopy**
- Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
- Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). [Data] 490812
- energy levels**
- Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- enthalpy**
- Positron annihilation measurement of the vacancy formation enthalpy in copper. (B22; 25 to 1040°C). 486882
- expansion**
- Effects of metallurgical microstructure of armatures on compressed magnetic field generators. (B21). 490540
- fabrication**
- Effects of metallurgical microstructure of armatures on compressed magnetic field generators. (B21). 490540
- fatigue**
- Position lifetime changes during the fatigue of Cu. (B22). 469094
- glow discharges**
- An appraisal of glow discharge treatment of copper surfaces by the techniques of electron stimulated desorption. (A12). [Data] 459772
- heat flux**
- Transient heat transfer to liquid helium from bare copper surfaces. (E11, A17). 470293
- heat transfer**
- Transient heat transfer to liquid helium from bare copper surfaces. (E11, A17). 470293
- heavy ion reactions**
- Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200
- Tables of light-fragment inclusive cross sections in relativistic heavy ion collisions. Part I. C + C, C + Pb, Ne + NaF, Ne + Cu, Ne + Pb $\rightarrow \pi^+$, p, d, t, ^3He ; E/sub BEAM/ = 800 MeV/A. (A33, A34; 800 MeV/A). [Data] 478653
- hydrogen**
- Spherical solid model for muon and hydrogen in metals. (A13). 481129
- impact shock**
- Rise-time measurements of shock transitions in aluminum, copper, and steel. (B22). 479378
- impurities**
- Elastoresistivity of impurities in copper. (B25). 490721
- ion channelling**
- Enhancements of Xe(M)-radiation during channelling of Xe-ions in copper crystals. (A13). 467418
- ion collisions**
- Cu K x-ray production as a function of projectile atomic number, energy, and incident charge state. (A12). 485448
- Effect of target thickness on characteristic projectile x-rays and REC in ion-atom collisions. (A12; Fluorescence yield, 20 to 80 MeV, lifetime, cross sections). [Data] 471404
- K-shell ionization of elements ^{63}Cu to ^{87}Rb for 0.4-3.8-MeV/amu ^{10}B -ion bombardment. (A12). 474624
- Particle ejection from ion-bombarded clean and reacted single-crystal surfaces. (A12). 474679
- Projectile K x-ray production in thin solid targets. (A12; 20 to 80 MeV, fluorescence yield, cross sections). [Data] 471405
- Secondary electron emission by energetic ions incident on metal surfaces. (A12). [Data] 477726
- Secondary ion emission from copper under inert gas ion bombardment. (A12; Energy distributions and yields). 459734
- ion emission**
- Ion-electron emission from spherical targets. (A13). [Data] 471441

- ion exchange chromatography**
Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ion implantation**
Defect production and electronic stopping for light ions in metals. (A14, B25). 485651
Ranges of $^{27}\text{Al}^+$ ions in nine metals measured by (p, γ) resonance broadening. (A13). [Data] 471478
Solubility enhancement in ion implanted Cu alloys. (B21, B22). 479355
- iron 56 reactions**
Fragmentation of relativistic ^{56}Fe . (A34). 478784
- kaon neutral reactions**
K/sub L/-nucleus total cross sections between 30 and 150 GeV: Quantitative evidence for inelastic screening. (A22). 481437
Precise coherent K/sub S/ regeneration amplitudes for C, Al, Cu, Sn, and Pb nuclei from 20 to 140 GeV/c and their interpretation. (A22). 481438
- kaon plus reactions**
Production of muon pairs by 225-GeV/c π^- , K^+ , p^- beams on nuclear targets. (A22). 478512
- kapitza resistance**
The effect of heat treatment and impurities on the Kapitza resistance of copper below 0.2 K. (A17). 462524
- lifetime**
Low-temperature effects in metals as observed by positron annihilation. (B21, B22). 486854
- mass spectroscopy**
Secondary ion mass spectrometric study of self-sputtered copper. (A13). 477901
- metallurgy**
Sintering kinetics of pure and doped boron carbide. (B23). 494072
- moessbauer effect**
Positron annihilation and Moessbauer studies on Cusub(x)Zsub(1-x) alloys. (A13). 477868
- monitoring**
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
Radionuclides and trace metals in surface air. (B33, C52, B11). [Data] 476482
Sequim Marine Research Laboratory routine environmental measurements during CY-1978. (C22, B31, B33, C52; Monitoring for laboratory-related radioactivity and pollutants in environment). 473107
- muon probes**
Application of μSR to radiation damage in metals. (A13, B25). 477872
Lattice relaxation around positive muon in copper. (A13). 474728
New results on the depolarisation of positive muons in copper. (A13). 474726
- muons**
Spherical solid model for muon and hydrogen in metals. (A13). 481129
- neon ions**
Intentions of fast noble gas ions with clean and with oxidized monocrystalline copper surfaces. (A13). 483289
Ion fractions of low energy Ne ($E_0 < 10$ keV) scattered from a copper single crystal. (A13). 467431
- neutron activation analysis**
Activation analysis of copper in foodstuffs after their partial destruction. (B11). 462662
The determination of manganese uranium, chromium, copper, and molybdenum, in special steel(uranium steel) by neutron activation analysis. (B11). 472409
Manganese, copper and zinc concentrations in human skin lesions. (B11). 486538
To the possibility of element determination using radiation capture of 2 keV neutrons. (B11). [Data] 493488
- neutron reactions**
Charged-particle production from neutron-nucleus collisions at 200 GeV/c. (A22). 475662
Competition of radiative transitions and neutron emission at the decay of unbonded states of iron and copper. (A34). 481572
Differential neutron cross section for free interstitial production in copper. (A14, B25). [Data] 464328
Neutron spectra from materials used in fusion and fusion-fission hybrid reactors. (A14). 467558
Particle production from neutron-nucleus collisions at Fermilab energies. (A22; Rapidity, yields). [Data] 478536
Polarization of 16-MeV neutrons due to elastic scattering. (A34). 468484
Status of ENDF-B-V neutron emission spectra induced by 14-MeV neutrons. (A34; Partial and total spectra, cross sections, graphs). [Data] 478734
- oscillator strengths**
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- permeability**
Precipitation processes in implanted materials. (B22, B24). 465577
- photon-atom collisions**
Photoelectric cross sections derived from the total absorption cross sections in the energy range 5-130 keV. (A32). [Data] 460269
- photonuclear reactions**
High energy photoproduction of the rho and rho' vector mesons. (A22; R). 475661
High energy photoproduction of the rho and rho' vector mesons. (A22; Cross sections, $2\pi^-$ and $4\pi^-$ states, 30 to 160 GeV). [Data] 478534
Measurement of shadowing in photon-nucleus total cross sections from 20 to 185 GeV. (A22). 475663
- physical radiation effects**
Application of μSR to radiation damage in metals. (A13, B25). 477872
Comparison of initial damage rates using neutron and electron irradiation. (B25). 487046
Computer simulation of replacement sequences in copper. (B25). 472777
Computer simulation of cascade developments in amorphous targets. (B25). 472791
The effect of mutual recombination on dislocation point defect sink strengths. (B25). 469465
Effects of irradiation on the copper normal metal of a composite superconductor. (B25, A14, A17; Neutron radiation). 479559
Formation of Frenkel pairs in electron irradiated copper. (B25). 472783
Frequency factors for the annealing of the electrical resistance changes in deuteron-bombarded copper. (B25). [Data] 465739
In-situ cyclic stress experiment at the Clinton P. Anderson Meson Physics Facility (LAMPF) for determining the effect of dislocation vibration on void growth in metals during irradiation. (B25; Protons at LAMPF). 490724
Ion bombardment induced preferential orientation in polycrystalline Cu targets. (B25). 472789
The life cycle of copper cones. (B25). 469434
Low frequency internal friction behaviour of copper after electron-irradiation at 20 K. (B25). 472780
On the problem of the stability of pyramidal structures on bombarded copper surfaces. (B25). 469406
Positron lifetime study of copper irradiated by energetic protons or energetic neutrons. (B25; 24 and 14 MeV). 479544
Quantitative analysis of void swelling in pure copper. (B25). [Data] 494117
Radiation effects on organic insulators for superconducting magnets. Annual progress report for period ending September 30, 1978. (B25, E12). 465727
The recovery between 30 K and 400 K of copper and copper alloyed with gold after thermal-neutron irradiation. (B25). [Data] 472735
The stability of cones and pyramids on sputtered surfaces of copper. (A13). 477860
- pion plus reactions**
Production of muon pairs by 225-GeV/c π^- , K^+ , p^- beams on nuclear targets. (A22). 478512
- pion-nucleon interactions**
Muon pair production in 16 and 22 GeV $\pi\text{-Cu}$ collisions. (A22). 478510
Production of J/psi in 16 and 22 GeV $\pi\text{-Cu}$ collisions. (A22). 478553
- plasma waves**
Surface plasma waves in the noble metals. (A13). 459799
- positron collisions**
Slow positron studies on single crystals of Ag(100), Ag(111) and Cu(111). (A12; 0 to 5 KeV, 300 to 1200°K). [Data] 485486
- potential energy**
Theoretical studies of highly ionized species. Progress report, March 1, 1978-February 28, 1979. (A12; Summaries of research activities at Harvard College Observatory). 459722
- proton reactions**
Production of muon pairs by 225-GeV/c π^- , K^+ , p^- beams on nuclear targets. (A22). 478512
Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194
- proton-neutron interactions**
A dependence in proton-nucleus interactions at 400 GeV. (A22). 483692
- proton-proton interactions**
A dependence in proton-nucleus interactions at 400 GeV. (A22). 483692
- secondary emission**
A comparison of experimental secondary ion energy spectra of polycrystalline metals with theory. (A13). [Data] 471558
Energy distributions of fast ionized recoils. (A13). [Data] 471428
Secondary electron emission by energetic ions incident on metal surfaces. (A12). [Data] 477726
- skin**
Manganese, copper and zinc concentrations in human skin lesions. (B11). 486538
- soldering**
Soldering of copper-clad niobium-titanium superconductor composite. (B22, E12). 469245
- sputtering**
Direct measurement of diffusion coefficients of sputtered atoms in Ar. (A12, A32). 485488
Particle ejection from ion-bombarded clean and reacted single-crystal surfaces. (A12). 474679
Secondary ion mass spectrometric study of self-sputtered copper. (A13). 477901
The stability of cones and pyramids on sputtered surfaces of copper. (A13). 477860
The stability of cones and pyramids on sputtered surfaces of copper. (B25, A13). 481883
- stopping power**
Energy straggling of 6.74 MeV protons in Cu. (A32). [Data] 481460
A modified treatment of low energy elastic stopping power in dense structureless media. (A13). [Data] 471544
- substrates**
Effects of vacuum processing erbium dideuteride/ditritide films deposited on chromium underlays on copper substrates. (B23, B21, D22). 486967

- superconducting composites**
Critical currents of in situ formed multifilamentary Cu-Nb₃Sn composites. (B22). 469118
- superconducting junctions**
Temperature dependence of the maximum d.c. Josephson current in superconducting proximity junctions. (A13). [Data] 481094
- surfaces**
Energy distributions of fast ionized recoils ejected from crystals under ion bombardment. (A13). 467361
Investigation of the binary model of scattering of 1 keV to 25 eV Ar⁺ ions from a Cu surface. (A13). 459803
Ion fractions of low energy Ne (E₀ < 10 keV) scattered from a copper single crystal. (A13). 467431
- toxicity**
Copper sensitivity of the Northern anchovy, *Engraulis mordax*, during its early life history. (C52). [Data] 487566
- voids**
Quantitative analysis of void swelling in pure copper. (B25). [Data] 494117
- wettability**
Experimental study of magnetic field effect on the kinetics of gallium, indium and indium alloys flowing on copper surface. (B22). 486941
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- COPPER ADDITIONS:**
See also STEEL-40KH
- embrittlement**
The improvement of irradiation-enhanced copper embrittlement in Fe-Cu alloys. (B25). 469460
- physical radiation effects**
Studies performed on neutron-irradiated copper-doped iron specimens by means of neutron small-angle scattering. (B25). 472767
- radiation hardening**
The improvement of irradiation-enhanced copper embrittlement in Fe-Cu alloys. (B25). 469460
- COPPER ALLOYS:**
See also BRASS; BRASS-ALPHA; COPPER BASE ALLOYS; HEUSLER ALLOYS; MONEL; MONEL 400; TUNGSTEN BRONZE
- annihilation**
Positron annihilation and Moessbauer studies on Cu_{sub}(x)Zn_{sub}(1-x) alloys. (A13). 477868
- brazed joints**
Reliability of brazed joints of ceramics with metal. (B21). 465548
- coercive force**
Giant intrinsic magnetic hardness in SmCo₅/sub 5-x/Cu/sub x/. (B22). 490615
- compatibility**
High-temperature compatibility of pyrolytic carbon with nickel-copper alloys. (B15). 469011
- copper 64**
Determination of the electron density at the Cu nucleus in Cu-Au alloys. (A13, B22). 483264
- crystal field**
Crystal fields in TmCu₅. (A13). [Data] 462208
- crystal-phase transformations**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
- domain structure**
Domain structure and remagnetization process of SmCo₅/Cu heterogeneous crystals. (B22). 476318
- electrolysis**
Anode dissolving of tungsten and its alloys with copper in chloride-fluoride electrolytes. (B21, B12). 493905
- electron spectroscopy**
Surface composition in platinum-copper alloys. (A13). 471568
- equations of state**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- grain density**
Direct observation of densification and grain growth in a W-Ni alloy. (B22). 494021
- grain growth**
Direct observation of densification and grain growth in a W-Ni alloy. (B22). 494021
- intermetallic compounds**
Study on crystal structure and magnetic characteristics of Co₂CuCe alloy. (B22). 476244
- ion implantation**
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
- knight shift**
Knight shifts and magnetic susceptibilities of the intermetallic compounds CeCu₄ and CeCu₅. (A13). 492683
- lattice parameters**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
- magnetic properties**
Coercive force of pseudobinary R(Co/sub 1-x/Cu/sub x)/₂ compounds. (B22). 479421
Enhancement of the magnetic properties of the Sm₂Cu/sub 1.6/Zr/sub 0.16/Fe/sub 3.3/Co₂ compound. (B22). 479368
NMR of Cu satellites in the Kondo alloy CuCr. (B22). 479360
Rare earth-cobalt permanent magnets with improved mechanical properties. (B22). 479444
- magnetic susceptibility**
Knight shifts and magnetic susceptibilities of the intermetallic compounds CeCu₄ and CeCu₅. (A13). 492683
- mechanical properties**
Application of composition modulated thin films. (B22, B21). 486888
Structure and properties of transition metal-metalloid glasses based on refractory metals. (B23, B24, B22). 472698
- microstructure**
Solubility enhancement in ion implanted Cu alloys. (B21, B22). 479355
- moessbauer effect**
Positron annihilation and Moessbauer studies on Cu_{sub}(x)Zn_{sub}(1-x) alloys. (A13). 477868
- order parameters**
Atomic short range order in Cu₃Mn studied by TOF neutron diffraction. (A13). [Data] 474785
- phase diagrams**
Precipitation processes in implanted materials. (B22, B24). 465577
Structure of phase equilibrium diagrams in Cd-Cu-X (S, Se, Te) systems. (B22). 469321
Study on phase diagram of Cu-Cr-Zr alloy system. (B22). 493981
- photoelectric emission**
Study of (Pt, Cu) alloys by EFAQ. (A13). 471567
- photoelectron spectroscopy**
X-ray photoelectron spectroscopy study of the surface composition of Pt-Cu alloys. (B22). [Data] 484166
- physical radiation effects**
Effect of semicoherent precipitation on void swelling in Al-Cu alloys. (B25, B22; Neutrons). 469413
Radiation disorder model of phase stability. (B25, A14). 465734
Radiation ordering in quenched alloys observed 'in situ' in the high voltage microscope. (B25). 490748
- positron channeling**
Study of precipitation phenomena in aluminum alloys by positron annihilation. (B21, B22). 479356
- precipitation**
Study of precipitation phenomena in aluminum alloys by positron annihilation. (B21, B22). 479356
- solid clusters**
A diffuse neutron scattering study of clustering kinetics in Cu-Ni alloys. (A13). 462255
A diffuse neutron scattering study of clustering in CuNi-alloys. (A13). 462254
- specific heat**
Low temperature heat capacity studies on hydrogen absorbing intermetallic compounds. (B22). 486929
- sputtering**
Effects of radiation-induced segregation and preferential sputtering on the sputtering rate of alloys. (B25, A14). 476388
- substrates**
Effects of vacuum processing erbium deuteride/ditritide films deposited on chromium underlays on copper substrates. (B23, B21, D22). 486967
- transition temperature**
Variants of Zr₂Co and their superconducting critical temperatures. (A17, B24). 467980
- transport**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- welded joints**
Cyclic strength of welded joints of copper and the MNZn 5-1 alloy together with the 0Kh18N10T steel. (B22). 493908
- x-ray emission analysis**
Study of (Pt, Cu) alloys by EFAQ. (A13). 471567
- x-ray spectroscopy**
X-ray photoelectron spectroscopy study of the surface composition of Pt-Cu alloys. (B22). [Data] 484166
- COPPER BASE ALLOYS:**
See also BRASS; BRASS-ALPHA; HEUSLER ALLOYS; TUNGSTEN BRONZE
- aging**
Effect of ultrasound on aging kinetic of Cu-Be alloy. (B22). 490612
- chemical radiation effects**
Transmission-electron-microscopy studies of displacement cascades in Cu₃Au. (B25). 494130
- corrosion**
Corrosion of titanium and copper-base alloys in model condenser. (E22). 477116
- crystal structure**
Partial structure factor of amorphous Cu sub(0.57)Zr sub(0.43) alloy determined by TOF pulsed neutron diffraction. (A13). 474819
- electric conductivity**
Hydrostatic-pressure studies of the electrical resistivity in the concentrated-spin-glass system Cu₇₅Mn₂₅. (B22). 465638
- electroslag welding**
Electroslag surfacing of copper and its alloys onto steel using boiling fluxes. (B21, B22). 490542
Welding in the USSR. (B21, E22). 472611
- expansion**
Effects of metallurgical microstructure of armatures on compressed magnetic field generators. (B21). 490540
- fabrication**
Effects of metallurgical microstructure of armatures on compressed magnetic field generators. (B21). 490540
- muon probes**
Trapping of positive muons by vacancies in non-stoichiometric compounds. (A13). 474744

- nuclear cascades**
Transmission-electron-microscopy studies of displacement cascades in Cu_3Au . (B25). 494130
- phase diagrams**
Investigation of phase diagram of the Cu-Zr system. (B22). 469224
- physical radiation effects**
Atomic rearrangements in ordered fcc alloys during neutron irradiation. (B25). 469429
Positron annihilation studies on an electron irradiated Cu-30 at % Zn alloy. (B25). 469453
The recovery between 30 K and 400 K of copper and copper alloyed with gold after thermal-neutron irradiation. (B25). [Data] 472735
- self-diffusion**
Metal research. (A13). 471540
- spin glass state**
Hydrostatic-pressure studies of the electrical resistivity in the concentrated-spin-glass system $\text{Cu}_{75}\text{Mn}_{25}$. (B22). 465638
- vacancies**
Trapping of positive muons by vacancies in non-stoichiometric compounds. (A13). 474744
- x-ray diffraction**
Study of small-angle x-ray scattering using two-crystal spectrometer. (B22, A13). 493931
- x-ray fluorescence analysis**
A fundamental parameter method for analysis of alloys by isotope-excited X-ray fluorescence. (B11). 472360
X-ray analyses following ionization by alpha particles. (B11). 475896
- COPPER CHLORIDES:**
- brain**
Increased brain uptake of copper and zinc in mice caused by diethylthiocarbamate. (C21). 479932
- catalysis**
Novel synthesis of 2-selenienylalanine. (B12). 468758
- chelating agents**
Increased brain uptake of copper and zinc in mice caused by diethylthiocarbamate. (C21). 479932
- crystal growth**
Growing of copper cesium chloride monocrystals. (B12). 468855
- diamagnetism**
High temperature superconductivity in CuCl . (A17). 471946
A possible mechanism of high temperature superconductivity. (A17). 471944
- excitons**
Study of cuprous chloride under pressure. (A17). 471947
- excitons**
Application of the extended effective mass theory to the exciton spectra of CuCl . (A13). 462205
- neutron diffraction**
Neutron scattering of the TO phonon in CuCl at 5 K. (A31). [Data] 472104
- physical radiation effects**
High density excitons in tracks of energetic charged particles in CuCl . (A13). 474841
- raman spectra**
Resonance Raman spectra of metal halide vapor complexes. (B12). 460514
- superconductivity**
 CuCl : some facts and thoughts on high-temperature superconductivity. (A13). 467482
High temperature superconductivity in CuCl . (A17). 471946
A possible mechanism of high temperature superconductivity. (A17). 471944
- COPPER COMPLEXES:**
Study of cuprous chloride under pressure. (A17). 471947
- chemical dosimeters**
Effect of gamma radiation on the IR spectra of some divalent and trivalent S-hydroxy-quinoline complexes. (B14, E41). 462778
- chemical preparation**
Polynuclear complexes. (B12, B13). [Data] 481672
- chemical reaction kinetics**
Kinetic studies on four-coordinate chelate complexes of copper(II): isotopic ligand exchange of Bis(salicylaliminato)copper(II) in toluene. (B12). 486679
- COPPER COMPOUNDS:**
See also COPPER CHLORIDES; COPPER HYDRIDES; COPPER NITRATES; COPPER OXIDES; COPPER SELENIDES; COPPER SULFATES; COPPER SULFIDES; COPPER TELLURIDES
- band theory**
Energy bands for Cu-PD in cubic faces. (A13). 471508
- chemical reactions**
Dynamic quenching of $\text{Ru}(\text{bpy})_3^{2+}$ sup π^* emission in the potential field of a polyelectrolyte. (B12). 465330
- magnetic properties**
Observation of the dynamic behavior of the antiferromagnetic-ferromagnetic phase transition in the one-dimensional spin-1/2 antiferromagnet $\alpha\text{-CuNSal}$. (B24). 479513
- neutron diffraction**
Fluctuations in two-dimensional six-vertex systems. (A13, B24). 489082
- nuclear magnetic resonance**
Deuterium quadrupolar interaction in the $\text{M}_2\text{CuX}_4\cdot 2\text{D}_2\text{O}$ compounds. (A13). 489017
- photolysis**
Reactivity of the carbonate radical toward metal complexes in aqueous solution. (B14). 472506
- radiolysis**
Metal ions of (I-IV) B-groups in unstable oxidation states (electron state $^2\text{S}_{1/2}$) in γ -irradiated aqueous solutions at 77°K. (B14). 493785
- COPPER HYDRIDES:**
- band theory**
The influence of vibration-rotation interaction on franck condon factors of ZrO and CuH . (A13). 471464
- franck-condon principle**
The influence of vibration-rotation interaction on franck condon factors of ZrO and CuH . (A13). 471464
- transition temperature**
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
- COPPER IONS:**
- collisions**
Impact-parameter dependence of K-vacancy production in Cu-Ni collisions. (A12). 474549
- duoplasmatrons**
Extraction of metal ion by duoplasmatron. (D14). 476843
- electron spin resonance**
EPR spectrum of copper ion pairs in CaO . (A13). 464124
- electronic structure**
Multiconfiguration Hartree-Fock method for atomic energy levels and transition probabilities. (A12). [Data] 492528
- ion-atom collisions**
Impact-parameter dependence of K-vacancy production in $\text{Cu}^{2+}(\text{q}^+)-\text{Kr}$ collisions. (A12). [Data] 483171
- thermoluminescence**
A thermoluminescent center in X-irradiated $\text{NaCl}:\text{Cu}^+$ single crystals. (A12). 459770
- COPPER ISOTOPES:**
See also COPPER 59; COPPER 60; COPPER 61; COPPER 62; COPPER 63; COPPER 64; COPPER 65
- photonuclear reactions**
Neutral pion photoproduction on nuclei near threshold. (A34). [Data] 481539
- COPPER NITRATES:**
- adiabatic demagnetization**
Nuclear adiabatic demagnetization of two proton systems in singlet ground state magnetic salt. (A17). 462513
- COPPER ORES:**
- leaching**
New TL leaching process yields economies for copper and uranium ores. (B16). 476201
- moessbauer effect**
Investigation in copper ores by Moessbauer effect. (A13). 471487
- COPPER OXIDES:**
- excitons**
Application of the extended effective mass theory to the exciton spectra of Cu_2O . (A13). 462204
- optical properties**
Optical properties of selective surfaces. (A13). 471426
- semiconductor materials**
Optical properties of selective surfaces. (A13). 471426
- COPPER SELENIDES:**
- chemical reactions**
Study of CuCr_2Se_4 reaction with certain salts. (B12; Salts: CuI , CdCl_2 , NaCl , CuBr , $\text{PbCl}_2\text{-CaCl}_2$, $\text{PbCl}_2\text{-CdCl}_2$). 465293
- compatibility**
Compatibility of Pt-3008 with selected components of the selenide isotope generator system. (D14, A16). 480292
- lattice parameters**
Lattice constants and band-gap variations of the pentenary semiconductor system $\text{Cu}/\text{sub } 1-y/\text{Ag}/\text{sub } y/\text{InS}/\text{sub } (21-x)/\text{Se}/\text{sub } 2x/$. (B24). 479515
- COPPER SULFATES:**
- solubility**
Study of solubility of some transition element salts in aqueous-ammoniacal medium. (B12). 478993
- COPPER SULFIDES:**
- corrosion**
Carbide precipitation in the heat affected zone of a GTA weld in 21-6-9 stainless steel. (B21, B15). 486841
- deposition**
Copper sulfide films deposited by cylindrical magnetron reactive sputtering. (B24). 476375
- fabrication**
Crystal structure and physical properties of $\text{Cu}_0.75\text{VS}_2$. (B23). 469371
- lattice parameters**
Lattice constants and band-gap variations of the pentenary semiconductor system $\text{Cu}/\text{sub } 1-y/\text{Ag}/\text{sub } y/\text{InS}/\text{sub } (21-x)/\text{Se}/\text{sub } 2x/$. (B24). 479515
- magnetic flux**
Scaling laws for pinning forces in inhomogeneous superconductors. (B22). 469095
- magnetoresistance**
Electronic properties of PbMo_6S_8 and $\text{Cu}/\text{sub } x/\text{Mo}_6\text{S}_8$. (B22, A17). [Data] 465678
- mixtures**
The $\text{Cu}_2\text{S-ReS}_2\text{-MoS}_2$ system. (B12). 468897
- physical properties**
Crystal structure and physical properties of $\text{Cu}_0.75\text{VS}_2$. (B23). 469371
- spin-lattice relaxation**
Ultra-fast nuclear relaxation and evidence of an order-disorder transition at 9 K in Cu_3VS_4 . (A13). 477850
- superconductivity**
Electronic properties of PbMo_6S_8 and $\text{Cu}/\text{sub } x/\text{Mo}_6\text{S}_8$. (B22, A17). [Data] 465678
Superconductivity and crystal structure of ternary $\text{Cu}(\text{sub}x)\text{Mo}_3\text{S}_4$ compounds with $0 < x < 1$ prepared by anodic oxidation of $\text{Cu}(\text{sub}1.0)\text{Mo}_3\text{S}_4$. (B22). 479461

- thermodynamic activity**
Thermodynamic analysis of the $\text{Cu}_2\text{S}-\text{Cu}_2\text{Te}$ system using dissociation pressure data. (B12). 478948
- thermodynamics**
Thermodynamic analysis of quasi-binary formed by copper chalcogenides. (B12). 468747
- COPPER TELLURIDES:**
- chemical preparation**
Synthesis structure and properties of alloys of ternary systems on the base of copper- and silver chalcogenides. (B22). 469242
- crystal-phase transformations**
On the development of stages of polymorphic transformation h.p. - f.c.c. in Cu_2S and Cu_2Te . (B22). 494012
- decomposition**
Kinetics and thermodynamics of copper telluride decomposition. (B12). 468729
- holes**
Electrical properties of CuGaTe_2 epitaxial layers. (B12). [Data] 481683
- ionic conductivity**
Investigation of nonstoichiometric copper tellurides. (B22). 469250
- oxidation**
Investigation into the rate of hydrochemical oxidation of copper (I) chalcogenides by oxygen. (B12). 468836
- polarization**
Electrochemical polarization of dispersed selenide and telluride of copper (I) in sulfuric acid solutions. (B12). 468842
- semiconductor materials**
Electric activity of copper vacancies in $\text{CuSub}(2-x)\text{Se}$ and $\text{CuSub}(2-x)\text{Te}$ crystals. (B22). 494035
- thermodynamic activity**
Thermodynamic analysis of the $\text{Cu}_2\text{S}-\text{Cu}_2\text{Te}$ system using dissociation pressure data. (B12). 478948
- thermodynamics**
Thermodynamic analysis of quasi-binary formed by copper chalcogenides. (B12). 468747
- COPPER 59:**
- energy-level transitions**
Gamma decay of resonances of the particle plus phonon type in ^{39}Cu . (A34). 493425
- isobaric analogs**
Protoninduced isobaric analogue resonances in ^{55}Mn and ^{59}Cu . (A34). [Data] 481530
- COPPER 60:**
- gamma decay**
Gamma-decay of ^{60}Cu excited states. (A34). 493333
- high spin states**
High-spin states in ^{60}Cu and a simple shell-model description of the $J_{\text{sup}}(\pi) = 6^-$ and 9^+ states in the odd-odd Cu isotopes. (A34). 472308
- COPPER 61:**
- energy levels**
(p, γ) reaction studies on ^{60}Ni . (A34). 483843
- isobaric analogs**
Decay modes of analog states studied by the ($^3\text{He},\text{dp}$) reaction. (A34). 486376
- isotope production**
Production of ^{61}Cu , ^{62}Zn by alpha and ^3He particle bombardment of natural nickel. (B13). 476142
- nuclear reaction yield**
Absolute cross sections for ^{64}Cu and ^{61}Cu produced by deuteron-induced reactions in copper. (A34). 468466
- COPPER 62:**
- energy levels**
Nuclear data sheets for $A=62$. (A34). [Data] 465145
- nuclear properties**
Nuclear data sheets for $A=62$. (A34). [Data] 465145
- radioisotope generators**
A ^{62}Cu generator. (B13). 490470
- COPPER 63:**
- gamma spectroscopy**
Gamma-ray spectroscopy in ^{63}Zn and ^{63}Cu . (A34). 490208
- isobaric analogs**
Decay modes of analog states studied by the ($^3\text{He},\text{dp}$) reaction. (A34). 486376
- nuclear decay**
Fragmentation of a previously reported $g_{\text{sub}} 9/2^-$ analog state in ^{63}Cu . (A34). 468572
- nuclear decay**
Radiative decay of $\text{sup}(63,65)\text{Cu}$ non-coupled states. (A34). 493424
- COPPER 63 REACTIONS:**
- deep inelastic heavy ion react**
Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
- deep inelastic scattering**
Production of $\text{sup}(149\text{g})\text{Tb}$ in deep inelastic transfer reactions. (A34). [Data] 468551
- heavy ion fusion reactions**
Evaporation residue excitation functions from fusion of ^{63}Cu with ^{63}Cu . (A34). 483897
- quasi-fission**
Production of ^{149}Tb in deep inelastic transfer reactions: an approach to the angular momentum of fragments. (A34). 481590
- COPPER 63 TARGET:**
- lithium 7 reactions**
In-beam gamma-ray spectroscopy studies in ^{68}Ge and ^{72}Ge . (A34; J, π lifetime). 468460
- neon 20 reactions**
Independent particle aspects of nuclear dynamics. (A33). [Data] 486285
- Randomly oriented angular momentum in strongly damped collisions. (A34). 478722
- neutron reactions**
Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). 486389
- Evaluation of the cross-sections for the reactions $^{24}\text{Mg}(n,p)^{24}\text{Na}$, $^{64}\text{Zn}(n,p)^{64}\text{Cu}$, $^{63}\text{Cu}(n,2n)^{62}\text{Cu}$ and $^{90}\text{Zr}(n,2n)^{89}\text{Zr}$. (A34). [Data] 472303
- photoneuclear reactions**
Momentum spectrum of protons generated at 20 deg - 160 deg angles on nuclei irradiated by bremsstrahlung photons with (4.5 GeV) maximum energy. (A34). 472246
- proton reactions**
Analyzing powers for the continuum portions of particle emission spectra. (A34; $^{63}\text{Cu} + p$, 14 and 18 MeV). [Data] 486340
- COPPER 64:**
- ascites tumor cells**
Lethal effects of the complex of bleomycin with high specific activity ^{64}Cu on Ehrlich ascites tumour cells. (C11). 490903
- cell killing**
Lethal effects of the complex of bleomycin with high specific activity ^{64}Cu on Ehrlich ascites tumour cells. (C11). 490903
- charge density**
Determination of the electron density at the Cu nucleus in Cu-Au alloys. (A13, B22). 483264
- chemical preparation**
A new preparation method of high specific activity ^{64}Cu by treatment of irradiated copper phthalocyanine. (B13). [Data] 490434
- electron capture decay**
Determination of the electron density at the Cu nucleus in Cu-Au alloys. (A13, B22). 483264
- intestinal absorption**
Primary biochemical defect in copper metabolism in mice with a recessive X-linked mutation analogous to Menkes' disease in man. (C21, C42, C11). [Data] 491039
- nuclear reaction yield**
Absolute cross sections for ^{64}Cu and ^{61}Cu produced by deuteron-induced reactions in copper. (A34). 468466
- tracer techniques**
Lattice and grain boundary diffusion of copper in γ -iron. (A13). 489020
- COPPER 64 TARGET:**
- neon 20 reactions**
Independent particle aspects of nuclear dynamics. (A33). [Data] 486285
- photoneuclear reactions**
Measurement of total cross sections of hadron photoproduction on C, Cu, and Pb nuclei for $E_{\text{sub}}(\gamma) = (12-30)$ GeV. (A22, A33). 468154
- COPPER 65:**
- energy levels**
Investigation of ^{65}Cu by means of the average resonance proton capture method. (A34). [Data] 478728
- moessbauer effect**
Study on the hyperfine interaction of ^{65}Cu nuclei with the internal magnetic field in Cu_2MnAl alloy. (A13). 492602
- nuclear decay**
Radiative decay of $\text{sup}(63,65)\text{Cu}$ non-coupled states. (A34). 493424
- nuclear magnetic moments**
Study on the hyperfine interaction of ^{65}Cu nuclei with the internal magnetic field in Cu_2MnAl alloy. (A13). 492602
- COPPER 65 TARGET:**
- boron 11 reactions**
In-beam gamma-ray spectroscopy of ^{76}Se following the $^{60}\text{Ni}(^{10}\text{B},2p)$, $^{64}\text{Ni}(^{12}\text{C},2n)$ and $^{64}\text{Cu}(^{11}\text{B},2n)$ reactions. (A34). 478760
- copper 63 reactions**
Evaporation residue excitation functions from fusion of ^{63}Cu with ^{63}Cu . (A34). 483897
- neutron reactions**
Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). 486389
- CORALS:**
- contamination**
Fission- and alpha-track study of biogeochemistry of plutonium and uranium in carbonates of bikini and enewetak atolls. Final report. (E14). 487861
- erosion**
Study of the agents and dynamics of coral bioerosion. (B32). 490831
- isotope dating**
Holocene emerged coral reef in Takarajima and Kodakarajima, Ryukyu islands, Southwest Japan. (B31). 476445
- isotope ratio**
Annual periodicity of the $^{18}\text{O}/^{16}\text{O}$ and $^{13}\text{C}/^{12}\text{C}$ ratios in the coral *Montastrea annularis*. (B31). 487075
- metabolism**
Uptake, assimilation, and fate of inorganic nitrogen in *Pocillopora*. (B32; ^{15}N tracer technique). [Data] 490833
- morphological changes**
Study of the agents and dynamics of coral bioerosion. (B32). 490831
- nutrients**
Uptake, assimilation, and fate of inorganic nitrogen in *Pocillopora*. (B32; ^{15}N tracer technique). [Data] 490833
- CORDILLERA DE LOS ANDES:**
See ANDES
- CORE CATCHERS:**
- decomposition**
Heat and mass transport processes of a horizontal melting or decomposing layer under a molten pool. (C52, E32, E35, B15; BWR; PWR; LMFBR). 469893

- lmfbr type reactors**
 A device of extinguishing a liquid fuel by remoteness. (E35; LMFBR, core catchers). 470744
- specifications**
 Apparatus for controlling nuclear core debris. (E22; Patent). 487990
 Core catcher for nuclear reactor core meltdown containment. (E31, E32; Patent; BWR; PWR). 461672
 Dispersement apparatus. (E22; Patent). 487997
 Nuclear reactor installation including a core catching apparatus. (E22; Patent). 461602
- CORE FLOODING SYSTEMS:**
 Emergency cooling of pressurized water reactors. (E32). [Data] 491887
 Reflood instrumentation development at ORNL: a status report. (C52). 461201
- bwr type reactors**
 Experimental investigation of cooling by top spray and bottom flooding of a simulated 64 rod bundle for a BWR. Pt. 2. Main experiment with modified test section. (E31). 491865
- heat transfer**
 Correlation of quench phenomena for bottom flooding during loss-of-coolant accidents. (E32). [Data] 491903
 Generalized theory for predicting mass effluence during reactor reflooding. (C52, E32). 487584
 Heat transfer during rewetting by bottom flooding. (C52). 473278
- hydrodynamics**
 Generalized theory for predicting mass effluence during reactor reflooding. (C52, E32). 487584
- pwr type reactors**
 Test prediction for the German PKL test K5A using RELAP4/MOD6. (C52). 469903
- CORE SPRAY SYSTEMS:**
bwr type reactors
 Experimental investigation of cooling by top spray and bottom flooding of a simulated 64 rod bundle for a BWR. Pt. 2. Main experiment with modified test section. (E31). 491865
- cooling**
 Channel box for bwr type reactors. (E31). 477220
- counter current**
 Restrictive effect of ascending steam on falling water during top spray emergency core cooling. (E31). 477214
- flow rate**
 Method and apparatus for emergency cooling of a nuclear power plant. (E24). 473832
- thermal shock**
 Emergency water injection system for nuclear power plant. (E34). 491951
- CORES (NUCLEAR):**
See NUCLEAR CORES
- CORES (REACTOR):**
See REACTOR CORES
- CORIUM:**
 (Molten mixture of fuel, cladding and other core structural material resulting from a meltdown accident.)
- convection**
 Finite amplitude thermal convection in porous media with uniform heat source. (C52, E11). 480080
- heat transfer**
 Growth of internally-heated core debris pools into soluble and insoluble structures. (C52, E35; GCFR type reactors). 461172
- oxidation**
 Analysis of a hypothetical core meltdown accident of a pressurized-water reactor. (E32, C52). 470678
- reactor safety**
 Numerical simulation of natural convection in horizontal fluid strata with and without internal heat sources. (E11, C52). 484815
- void fraction**
 Volume-heated boiling pool flow behavior and application to transition phase accident conditions. (C52, E35; LMFBR). 461210
- CORN (MAIZE):**
See MAIZE
- CORNEA:**
biological radiation effects
 Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 487210
 Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 476554
- cell proliferation**
 Irradiation of the microvasculature with fast neutrons. (C14; RBE for capillary damage following canine corneal irradiation). 490951
- CORONA (SOLAR):**
See SOLAR CORONA
- CORONA COUNTERS:**
energy resolution
 Resolution of corona counters. (E41). 495069
- CORONARIES:**
blood flow
 Effects of maximal exercise stress on left ventricular function in patients with coronary artery disease using first pass radionuclide angiocardiology. (C62, C31; $^{99\text{m}}\text{Tc}$ -pertechnetate). 487699
- scintiscanning**
 Clinical value of the thallium-201 stress test: sensitivity and specificity in the detection of coronary artery disease. (C62). 470143
- Exercise surface potential mapping and myocardial scintigraphy in coronary artery diseases. (C31). 469820**
- CORRECTIONS:**
See also RYDBERG CORRECTION
- CORRELATION ENERGY:**
See ELECTRON CORRELATION
- CORRELATION FUNCTIONS:**
fermi statistics
 Optimal correlation function for Fermi HNC equations. (A33). 472173
- scattering**
 The geometrical shape of hadronic strings and overlapping functions. (A21). [Data] 481391
- CORRELATIONS:**
See also ANGULAR CORRELATION; DIFFERENTIAL PAC; ELECTRON CORRELATION; PERTURBED ANGULAR CORRELATION
- critical heat flux**
 WSC-2: a subchannel dryout correlation for water-cooled clusters over the pressure range 3.4-15.9 MPA (500-2300 PSIA). (E31, E32). [Data] 482735
- dryout**
 WSC-2: a subchannel dryout correlation for water-cooled clusters over the pressure range 3.4-15.9 MPA (500-2300 PSIA). (E31, E32). [Data] 482735
- CORROSION:**
See also ELECTROCHEMICAL CORROSION; PITTING CORROSION; STRESS CORROSION
- carbon steels**
 Dissolution of iron during the initial corrosion of carbon steel in aqueous H_2S solutions. (B15). 460631
- chemical reaction kinetics**
 Thermodynamic analysis of salt corrosion of titanium alloys. (B15). 493845
- control**
 Corrosion control in production and field conditions using nuclear physical methods. (B15). 465494
- fatigue**
 Corrosion fatigue in pressure vessel steels for light water reactors. (E31, E32, B15). 491870
- helium**
 A description of the helium corrosion test facility at Springfield Nuclear Power Development Laboratories. (B15). 462813
 Experiments to study the effects of interaction of HTR helium with metals, alloys and ceramics. (B15). 486780
- laboratory equipment**
 Corrosion in alkali metal circuits. Pt. 2. (E17, B15). 466562
- layers**
 Moessbauerspectroscopic studies of the corrosion of iron. (B15). 486784
- liquid metals**
 Corrosion by liquid metals - Application to liquid sodium. (B15). [Data] 493835
- microstructure**
 Oxidation of zirconium alloys in molten salt of nitrate/nitrite at 350 deg C. The effect of different heat and surface treatments on the current-voltage characteristic. (B22, B15). 479459
- monitoring**
 Scanning reference electrode techniques in localized corrosion. (B15, E17). 490509
- oxygen**
 Effect of dissolved oxygen on carbon steel corrosion in pure water. (B15). 481752
- spatial distribution**
 Light element profiling using nuclear reaction analysis on tapered corrosion sections. (B11). 472384
- texture**
 The texture of corrosion layers on zirconium tubing. (E23). 491783
- CORROSION INHIBITION:**
See CORROSION PROTECTION
- CORROSION INHIBITORS:**
decontamination
 Short-term selection method of corrosion inhibitors for decontamination techniques. (C54, B15). 469990
- testing**
 Exploratory study of inhibition of intergranular stress corrosion cracking in sensitized Type 304 stainless steel. (E31, B15). 477197
- CORROSION PRODUCTS:**
 Effect of nickel hydroxide injections on the mass transfer of corrosion products in high temperature, high pressure water circuits. (E31, B15). 480631
- adhesion**
 Factors governing particulate corrosion product adhesion to surfaces in water reactor coolant circuits. (E34, B15). 491944
- bwr type reactors**
 A mathematical model for the build up of corrosion products in water and on surfaces in BWR. (E31, F51). [Data] 461668
- chemical composition**
 Corrosion products phase composition determination of structural materials of primary circuit of RBMK-1000 with neutral aqueous regime by means of nuclear gamma resonance spectroscopy. (B15). 493836
- crystal lattices**
 Investigations on the determination of corrosion kinetics and the structure of corrosion products on high-temperature alloys under low oxygen partial pressures. (B15). 481754
- deposition**
 Corrosion product deposition and release at nuclear fuel sheaths in boiling water. (B15, E34). 465493
 Electrokinetic deposition of waterborne, particulate $\text{FeO}(\text{OH})$ and MnO_2 on stainless steel surfaces. (B15, B12). 479323
 Survey of corrosion product generation, transport, and deposition in light water nuclear reactors. Final report. (E31, E32). 488026
- moessbauer effect**
 Moessbauer study on the products of iron corrosion in the anion exchanger of an industrial water desalinizing equipment. (B11). [Data] 490305

- solubility**
Survey of corrosion product generation, transport, and deposition in light water nuclear reactors. Final report. (E31, E32). 488026
- spallation**
Corrosion product deposition and release at nuclear fuel sheaths in boiling water. (B15, E34). 465493
- transport**
Accumulation of radioactive corrosion products in nuclear steam generators. (E34, B15). 480663
Mechanisms of corrosion product transport and their investigation in high temperature water loops. (E31, E32, E34). 473868
- CORROSION PROTECTION:**
chemical radiation effects
The influence of calcium-45 on the inhibitive effect of calcium hexameta-phosphate combination and the electrocapillary effect of calcium-45. (B14, B15; 17 refs., 10 figures). 460605
polyethylenes
Moessbauer spectrometric studies of corrosion products of steel pipes internally coated with polyethylene. (B15). 486788
pwr type reactors
Experimental research on the mass transfer in pressurized water. (B12, E32, B15). 465356
thermal power plants
The influence of mass transfer, velocity and mechanical stress on the growth of coating in hot water. (B12, E32, B15). 465320
- CORROSION RESISTANCE:**
nickel alloys
Properties and new fields of application of nickelous materials. (B22, E22). 469253
stainless steels
Deactivation effect on corrosion resistant steels. (B15). 476193
- CORROSION RESISTANT ALLOYS:**
See also more specific entries as listed in the INIS Thesaurus.
- CORROSIVE EFFECTS:**
See CORROSION
- CORTEX (ADRENAL):**
See ADRENAL GLANDS
- CORTEX (CEREBRAL):**
See CEREBRAL CORTEX
- CORTICOIDS:**
See CORTICOSTEROIDS
- CORTICOSTEROIDS:**
See also ALDOSTERONE; CORTICOSTERONE; GLUCOCORTICOIDS; HYDROCORTISONE; PREDNISOLONE; PREDNISONONE
inhalation
Treatment of acute lung injury from external gamma irradiation with an inhaled corticosteroid. (C14). 469657
radiosensitivity
Endocrine factors influencing radiation injury to central nervous tissue. (C15, C63; Incidence of complication following radiotherapy of pituitary adenomas in patients with acromegaly or Cushing's disease). 472991
Treatment of acute lung injury from external gamma irradiation with an inhaled corticosteroid. (C14). 469657
- CORTICOSTERONE:**
biological effects
Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). 476568
biosynthesis
Influence of steroids on nucleic acid metabolism in the developing tissues of an irradiated organism. (C14). 463142
radiosensitivity
Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). 476568
- CORTISOL:**
See HYDROCORTISONE
- CORUNDUM:**
See also RUBY; SAPPHIRE
electron microscopy
Radiation damage of α -Al₂O₃ in the HVEM. I. (B25). 484322
Radiation damage of α -Al₂O₃ in the HVEM. II. (B25). 484323
physical radiation effects
Radiation damage of α -Al₂O₃ in the HVEM. II. (B25). 484323
Radiation damage of α -Al₂O₃ in the HVEM. I. (B25). 484322
- CORYNEBACTERIUM PARVUM:**
immune reactions
Radiation-induced osteogenic sarcoma of C3H mouse; effects of Corynebacterium parvum and WBI on its natural history and response to irradiation. (C14). 490948
mortality
Effects of whole body irradiation in mice treated with C. parvum. (C14). 490945
whole-body irradiation
Effects of whole body irradiation in mice treated with C. parvum. (C14). 490945
- COSMIC DUST:**
Cosmic dust. Its impact on astronomy. (A15). 478292
ammonia
Ammonia observations of the molecular cloud near S106. (A15). 492942
chemical composition
Three-level models of chemical evolution. (A15). 489518
cosmic radio sources
Radio observations of interstellar CN toward diffuse clouds, dark clouds, black clouds, and circumstellar clouds. (A15; 113 GHz). 475169
energy balance
Structure and characteristics of diffuse interstellar clouds. (A15). 478201
- energy spectra**
Star formation process in molecular clouds associated with Herbig Be/Ae stars. II. The nonhomologous collapse of the CrA cloud. (A15). 464614
formaldehyde
The ¹²C/¹³C abundance ratio derived from H₂CO observations of southern sources. (A15). 492895
Formaldehyde in Rho Ophiuchi. (A15). 481274
A survey of formaldehyde in the Orion dust cloud L1641. (A15). 481265
- gamma radiation**
 γ and X rays from the zodiacal dust. (A15). 471909
hydrogen
A search for intergalactic hydrogen clouds in the vicinity of nearby dwarf galaxies. (A15). 471890
intergalactic space
Suprathermal grains: on intergalactic magnetic fields. (A15). 467797
interplanetary space
Interplanetary dust. (A15). 492959
magnesium
Studies of interstellar magnesium absorption in the ultraviolet from a balloon-borne platform. (A15). 471886
milky way
Nebulosity in the region of the South Celestial Pole. (A15). 492921
quantity ratio
Study of cosmic dust, (12). (A15). 464692
relativistic range
Transition radiation from relativistic intergalactic dust grains. (A15). 489460
transition radiation
Transition radiation from relativistic intergalactic dust grains. (A15). 489460
- x radiation**
 γ and X rays from the zodiacal dust. (A15). 471909
zodiacal light
Zodiacal light observations. (A15). 492940
- COSMIC GAMMA BURSTS:**
cosmic ray detection
Characteristics of proportional counters for a large number of particles. (E41). 492143
energy spectra
Observations of gamma bursts in the Conus experiment on board Venera 11 and Venera 12 space probes. (A15). 485908
flux density
Simultaneous radio and X-ray observations of the X-ray burst source MXB 1636 - 53. (A15). [Data] 462485
galactic evolution
Origin of cosmic rays. (A15). 485946
- COSMIC GAMMA SOURCES:**
High energy astrophysics in Europe, using balloons. (A15). 483587
Low energy gamma ray astronomy at balloon altitudes with the MPI-Compton telescope. (A15). 483488
Results of gamma-quanta flux studies at superhigh energy from the X-ray source "Cyg X-3" and the Galaxy. (A15). 492990
astronomy
Maximum-entropy image processing in gamma-ray astronomy. (A15). 462479
binary stars
 γ rays from close binaries in the quiet stage. (A15). 475343
coordinates
On the possibility of the localization of gamma burst sources detected by the artificial Earth satellites "Prognoz 6" and "Sneg 3". (A15). 492934
emission spectra
Effects of nonuniform structure in compact synchrotron sources. (A15; Magnetic field gradient effects, relativistic electron distribution). 471861
explosions
Theory of cosmical coherent avalanche catastrophies. (A15). 467736
gamma spectra
Galactic gamma-ray flux in the 0.06 - 5 MeV range. (A15). 489497
Low energy gamma ray astronomy from Apollo 16. (A15; Inverse Compton effect). 460068
gravitational radiation
Theory of cosmical coherent avalanche catastrophies. (A15). 467736
spatial distribution
Low energy gamma ray astronomy from Apollo 16. (A15; Inverse Compton effect). 460068
star models
Effects of nonuniform structure in compact synchrotron sources. (A15; Magnetic field gradient effects, relativistic electron distribution). 471861
- COSMIC GASES:**
ammonia
Ammonia observations of the molecular cloud near S106. (A15). 492942
carbon
The role of carbon and oxygen in cosmic gases: some applications to the chemistry and mineralogy of enstatite chondrites. (B31, A15). 494200
charge exchange
The effect of charge exchange reaction on carbon lines. (A15). 483424
chemical composition
Formation of interstellar HCS*. (A15). 475346
Radio observations of interstellar CN toward diffuse clouds, dark clouds, black clouds, and circumstellar clouds. (A15; 113 GHz). 475169
Three-level models of chemical evolution. (A15). 489518

- chemical reactions**
Laboratory investigation of ion-molecule reactions of HC_3N in dense interstellar clouds. (A15). 471809
- collisions**
Collisional growth of giant molecular clouds. (A15). 489624
- electron density**
Interstellar material in front of chi ophiuchi. I. Optical observations. (A15). [Data] 464573
- emission spectra**
The effect of charge exchange reaction on carbon lines. (A15). 483424
Physics of molecular clouds from millimeter wave line observations. (A15). 460129
- energy balance**
Structure and characteristics of diffuse interstellar clouds. (A15). 478201
- far infrared radiation**
Far infrared emission of molecular clouds and star formation in the galaxy. (A15). 460118
- formaldehyde**
The $^{12}\text{C}/^{13}\text{C}$ abundance ratio derived from H_2CO observations of southern sources. (A15). 492895
Formaldehyde in Rho Ophiuchi. (A15). 481274
- gravitational collapse**
Gravothermal catastrophe of finite amplitude. (A15). 471830
Pressure stabilization of the shape instability. (A15). 481285
- helmholtz instability**
Effect of rotation on Kelvin-Helmholtz instability of self-gravitating gas clouds. (A15, A14). 489505
- hydrocarbons**
Long chain carbon molecules and diffuse interstellar lines. (A15). 471874
- hydrodynamics**
Dynamical evolution of hot intracluster gas formed by primordial gas and ejected gas from galaxies. (A15). 464590
- hydrogen**
Maser effect in the 21 cm line in a turbulent interstellar plasma. (A15). 492918
A search for intergalactic hydrogen clouds in the vicinity of nearby dwarf galaxies. (A15). 481290
- hydrostatics**
Hydrostatic equilibrium of the interstellar gas. (A15). 464574
- instability**
Radiation-driven instabilities in interstellar space. (A15). 471813
- iron ions**
The structure and spectra of the X-ray sources in clusters of galaxies. (A15). 489454
- jets**
Model for the knots in the M87 jet. (A15). 475197
- magnesium**
Studies of interstellar magnesium absorption in the ultraviolet from a balloon-borne platform. (A15). 471886
- magnetic fields**
Unrestricted second-order tensor virial equations for linear oscillations of magnetic configurations. (A15). 467820
- magnetohydrodynamics**
Stability of a self-gravitating magnetized system. (A15). 467917
- mass spectra**
Mass spectrum of interstellar clouds. (A15). 489551
- mass transfer**
On the processes of mass transport in rotating gas-dust clouds. (A15). 475210
- milky way**
Nebulosity in the region of the South Celestial Pole. (A15). 492921
- molecules**
Molecule formation in interstellar clouds. (A12, A15). 467340
- organic compounds**
Tholins: organic chemistry of interstellar grains and gas. (A15). [Data] 460119
- oxygen**
The role of carbon and oxygen in cosmic gases: some applications to the chemistry and mineralogy of enstatite chondrites. (B31, A15). 494200
- population inversion**
Maser effect in the 21 cm line in a turbulent interstellar plasma. (A15). 492918
- radiative cooling**
Galactic corona. (A15). 464542
- spatial distribution**
Molecular hydrogen in globular clusters: a search for carbon monoxide. (A15). 475401
- spectra**
Spectral appearance of non-uniform gas at high z . (A15). 492910
- star accretion**
Spherically symmetric accretion with self-gravitation. (A15). 481252
- COSMIC PARTICLES:**
See COSMIC RADIATION
- COSMIC RADIATION:**
(Not for radiation from the sun for which see SOLAR RADIATION.)
See also COSMIC GAMMA BURSTS; COSMIC SHOWERS; EXTENSIVE AIR SHOWERS; PRIMARY COSMIC RADIATION; SECONDARY COSMIC RADIATION; SOFT COMPONENT
The energy spectrum and the anisotropy of the cosmic radiation. (A15). 471853
Inelastic interaction of cosmic ray muons with nuclei of iron. (A34). 483817
Albedo of cosmic rays by measuring in the stratosphere. (B33). 494236
- angular distribution**
The angular distribution of cosmic rays at the boundary of the heliosphere. (B33, A15). 479685
Cosmic-ray muon spectrum up to 1 TeV at 75° zenith angle. (A15). 475313
- anisotropy**
Energy spectrum of cosmic ray anisotropy during 1971-1975. (A15). 492897
Measurement of anisotropy in the cosmic background radiation on a large angular scale at 33 GHz. (A15). 471821
Time variations of latitude effects of cosmic rays in the Earth atmosphere. (B33). 494230
- background radiation**
Measurement of anisotropy in the cosmic background radiation on a large angular scale at 33 GHz. (A15). 471821
- blackbody radiation**
Spectrum of the cosmic background radiation. (A15). 478363
- chemical composition**
Cosmic-ray abundances of individual elements in the interval $26 < Z < 30$. (A15). 478352
- cosmic ray flux**
Investigation of hysteresis phenomena, fluctuations, barometric and ionospheric effects in cosmic rays. (A15, B33). 483472
- cosmic ray propagation**
Dynamical halo and the variation of cosmic-ray path length with energy. (A15). 489533
- counting rates**
Environmental radiation measurements. (E41). 492142
- daily variations**
The September 1977 cosmic ray storm observed in a wide rigidity range. (A15). 475264
- diffusion**
Cosmic-ray diffusion and the turbulent galactic magnetic field. (A15). [Data] 462427
- distribution functions**
Distribution function of cosmic rays according to the path in substance. (A15). 492919
- earth atmosphere**
Short-period fluctuations of cosmic rays. (B33, A15). 487163
- electrons**
The diffusion model of cosmic-ray propagation. III. (A15). 483456
The diffusion model of cosmic-ray propagation. I. (A15). 483454
Investigation of time characteristics of acceleration process of charged particles on a shock front. (A15). 492929
Magnetic plugs in shock waves and their role in acceleration of particles. (A15). 492928
- emission spectra**
Spectrum of the cosmic background radiation. (A15). 478363
- energy spectra**
Cosmic microwave background: present status and future prospects. (A15; Review). 478303
Cosmic ray energy spectrum in the range from 10^{17} to 10^{20} eV. (A15, B33). 483461
Cosmic-ray muon spectrum up to 1 TeV at 75° zenith angle. (A15). 475313
Early radiation spectrum, cooling, and escape of supernova shock-accelerated cosmic rays. (A15). 489446
Orbital spectra for galactic cosmic radiation for two models of local spectra. (B33). 490890
- equations of state**
Composition and adiabatic index of matter at high temperatures. (A15). 467752
- fluctuations**
Fluctuations in the background radiation at 1394 MHz. (A15). 489499
- gamma radiation**
Gamma ray astronomy. (A15). [Data] 460146
Study of horizontal spread of a large gamma-ray family observed at Mt Chacaltaya. (A15). 489602
- gamma spectra**
Observations of medium energy gamma ray emission from the galactic center region. (A15; 15 to 100 MeV). 460084
- geomagnetic field**
Geomagnetic cut-off threshold in 34.5° N latitude. (B33). 469546
Orbital spectra for galactic cosmic radiation for two models of local spectra. (B33). 490890
- hadron reactions**
Hadron interactions of cosmic radiation with energy higher than 10^{15} eV. Part I (Brazil-Japan collaboration). (A15). 471757
Hadron interactions of cosmic radiation with energy higher than 10^{15} eV. Part II (Brazil-Japan collaboration). (A15). 471758
- hadron-hadron interactions**
Computer Simulation of Emulsion Chamber C-jets using conventional particle physics. (A21). 489778
High energy interactions and cosmic-ray components in the atmosphere. (E41, A15, A22). 492165
- hadronic particle decay**
Baryon pair production with large decay Q-value. (A15, A21). 489488
- hadrons**
Neutral to charged ratio for unaccompanied high-energy cosmic-ray hadrons at mountain altitude. (A15). 475339
- interferometry**
Fluctuations in the background radiation at 1394 MHz. (A15). 489499
- interplanetary magnetic fields**
Degree of inhomogeneity of the interplanetary magnetic field during Forbush effects based on measuring of galactic cosmic ray currents. (A15). 492904
Distribution of a cosmic ray current in sectors of the interplanetary

- magnetic fields. (A15). 492927
- Structure of shock waves according to short-period cosmic ray variations. (A15). 492926
- interplanetary space**
- Acceleration of particles up to relativistic range in an interplanetary medium. (A15). 492893
- Acceleration of particles in interplanetary space in the one-dimensional model with moving plane shock wave front. (A15). 492999
- Automodel solutions of the theory of nonstationary modulation and problems of experimental investigations of cosmic ray variations on the ARAGATS mountain. (A15). 492852
- Modulation of cosmic rays intensity in the interplanetary space taking into account "royal zones" in distribution of solar activity. (A15). 492853
- Pitch angular dependence of cosmic rays modulation depth in the interplanetary space. (A15). 492884
- Simulative calculations of cosmic ray propagation in linear and nonlinear theory of modulation. (A15). 492882
- iron isotopes**
- Detection of relativistic cosmic ray iron nuclei in the plastic track detector CR-39. (E41). 492056
- isotope production**
- Geomagnetic variation during the late Pleistocene period and changes in the radiocarbon time scale. (B31). [Data] 476404
- isotope ratio**
- Cosmic ray isotopic composition: neon through iron. (A15). 467938
- Isotopic composition of hydrogen and helium during cosmic ray flux growth in 12-17 June 1975. (A15). 489392
- Isotopic composition of cosmic ray B-O and Fe. (A15). 478209
- Isotopic composition of primary cosmic ray nitrogen and oxygen with consequences for source models. (A15). [Data] 460078
- A test of Katz's track formation theory on tracks of cosmic ray Be-Mg in nuclear emulsion. (E41). 485026
- magnetic monopoles**
- Observational limits on the magnetic-monopole structure of protons. (A15). 475207
- modulation**
- Modulation of cosmic rays in interplanetary space and solar activity. (B33). 494227
- The total magnetic field of the Sun as the source of modulation of cosmic rays. (A15). 492873
- muons**
- Dose rate and flux density of cosmic muons estimated by TLD method. (C55, A15). [Data] 476747
- Effect of solar modulation on the low energy sea level muon spectrum near the geomagnetic equator. (A15). 475193
- neutron monitors**
- The latitude distribution of cosmic rays at sea level during 1976. (A15, B33). [Data] 481298
- neutrons**
- On the latitude dependence of the semidiurnal anisotropy of cosmic rays. (A15, B33). 471925
- north-south asymmetry**
- Asymmetry of cosmic rays in high latitude regions of the Earth magnetosphere during 1969-1977. (B33). 494241
- nuclei**
- Charge composition of medium energy cosmic-ray nuclei from neon to iron. (A15). 489632
- Detection of relativistic cosmic ray iron nuclei in the plastic track detector CR-39. (E41). 492056
- The diffusion model of cosmic-ray propagation. II. (A15). 483455
- Evidence for the deficiency of short cosmic ray pathlengths and a physically realistic explanation - the no-near-sources model. (A15). 489563
- An instrument to measure the spectrum of cosmic ray iron and other nuclei to above 100 GeV/nucleon. (E41, A15). 480744
- origin**
- Cosmic microwave background: present status and future prospects. (A15; Review). 478303
- Origin of cosmic rays. (A15). 485946
- particle tracks**
- A test of Katz's track formation theory on tracks of cosmic ray Be-Mg in nuclear emulsion. (E41). 485026
- pions**
- Share of charged pions in the hadronic component of cosmic rays in the 55-330 GeV/c momentum range at mountain altitudes. (A15). 475434
- protons**
- Investigation of time characteristics of acceleration process of charged particles on a shock front. (A15). 492929
- Magnetic plugs in shock waves and their role in acceleration of particles. (A15). 492928
- radiation doses**
- Determination of the cosmic radiation dose by thermoluminescent dosimeters and calculation of the gamma component. (C55). 482258
- radiation transport**
- On the equation of transport for cosmic-ray particles in the interplanetary region. (A15). 467962
- ring currents**
- Determination of the ring current radii from cosmic ray neutron monitor data for the 17 December 1971 magnetic storm. (A15, B33). 478229
- solar activity**
- Absence of effective modulation of the galactic cosmic rays in the solar system during the ice-age. (A15). 492939
- Effect of solar modulation on the low energy sea level muon spectrum near the geomagnetic equator. (A15). 475193
- solar cycle**
- Possible connection of anomalous intensity of the galactic cosmic rays on the 20sup(th) solar cycle decay with anomalous development of the total magnetic field of the Sun. (A15). 492925
- solar flares**
- Solar activity effects on cosmic ray intensity and geomagnetic field variation. (A15, B33). 460126
- spatial distribution**
- Anisotropy of cosmic rays of extreme high energies. (A15). 483507
- spectra**
- Cosmic background. (A15). 460036
- thermoluminescent dosimetry**
- Dose rate and flux density of cosmic muons estimated by TLD method. (C55, A15). [Data] 476747
- trapping**
- Plasma physics of trapping of cosmic rays around supernova. (A15). 492931
- variations**
- ¹⁰Be in marine sediments, Earth's environment and cosmic rays. (B22, B33, A15). [Data] 462876
- Determining variations of cosmic ray intensity of interplanetary, magnetospheric and atmospheric origin based on the Sayan data. (B33). 484397
- IMF sector structure and cosmic ray intensity variation. (B33). [Data] 490889
- Methods of investigations of cosmic ray variations by means of difference, ionospheric and radiocarbon link coefficients. (A15, B33). 492883
- 11-year variations of cosmic rays in the 19sub(th) and 20sup(th) cycle of solar activity. (A15). 492933
- wave propagation**
- Propagation of cosmic rays through a plasma. (A15). 467855
- x radiation**
- The cosmic X-ray experiment aboard HEAO-1. (A15, E41). 478329
- COSMIC RADIO SOURCES:**
- See also CRAB NEBULA; H1 REGIONS; H2 REGIONS; PULSARS; QUASARS; RADIO GALAXIES; SUPERNOVA REMNANTS
- Interstellar scattering, the North Polar Spur, and a possible new class of compact galactic radio sources. (A15). 489613
- beam-plasma systems**
- Radio emission from an intense electromagnetic beam-plasma system. (A15, A14). 489546
- compiled data**
- Handbook of radio sources. (A15). [Data] 478311
- coordinates**
- Geodesy and astrometry by transatlantic long base line interferometry. (A15). 467777
- Identification of radio sources in the south polar cap. (A15). 485837
- New optical identifications from the fourteenth part of the Parkes 2700 MHz survey: declinations -4° to -15°, right ascensions 10h to 15h. (A15). 489621
- Observations of the 5C 1-5 survey areas at 1421 MHz. (A15). 492898
- Optical detection of CL 4. (A15). 464683
- The Parkes 2700 MHz survey (fourteenth part): catalogue for declinations -4° to -15°, right ascensions 10h to 15h. (A15). 489421
- The position of 3C 111. (A15). [Data] 462422
- A southern hemisphere survey of the galactic plane at 5 GHz. (A15). 475291
- A 30MHz map of the whole sky. (A15). 489432
- cosmological models**
- On the apparent superluminal separation of radio source components. (A15). 475229
- emission spectra**
- Relations between the emission spectra and radio structures of quasars. (A15). 481288
- energy spectra**
- BL LACERTAE: A variable radio source with prolonged particle generation at a single location. (A15). 464525
- Further monitoring of the structure of superluminal radio sources. (A15). 489625
- Radio studies of complete samples of QSOs from the 4C and Parkes catalogs. (A15). 485943
- Redshifts of southern radio sources. IV. (A15). 489664
- faraday effect**
- New large-scale magnetic features of the Milky Way. (A15). [Data] 475410
- flux density**
- VLBI observations of hot spots in the lobes of distant radio sources. (A15). [Data] 481277
- formaldehyde**
- The ¹²C/¹³C abundance ratio derived from H₂CO observations of southern sources. (A15). 492895
- galaxy clusters**
- Hot-spots of radio sources in clusters of galaxies. (A15). 462473
- Observations of complex radio sources in Abell clusters at 2.7 GHz. (A15). 492986
- A test of clustering among radio sources in 0.16 sr of the 6C survey. (A15). 481287
- maps**
- VLBI aperture synthesis observations of H₂O masers associated with molecular clouds. (A15; W51, ON2, CRL 2591, W3). 475436
- mathematical models**
- SS 433: a double jet in action. (A15). 462438
- optical modes**
- Search for correlated radio and optical events in long-term studies of extra-galactic sources. (A15; Radiation mechanisms). 478323

- polarization**
 Identifications of six BL lacertae objects from the molonglo MC2 and MC3 catalogs. (A15). 485950
 Polarization moments and their application in investigations of component polarizations of double radio sources. (A15). 471788
 Polarization properties of extragalactic radio sources. (A15). 483476
 Radio polarization of AO 0235+164: A rotating source. (A15). 485898
- radiowave radiation**
 Models for x-ray and radio emission from clusters of galaxies. (A15). 485882
 Preliminary results from a comparison of color excesses and 21 cm absorption/emission sampled in the same volume of space. (A15). 467846
 Search for correlated radio and optical events in long-term studies of extra-galactic sources. (A15; Radiation mechanisms). 478323
- scintillations**
 Low frequency observations of the scintillation of weak radio sources. (A15). 483429
 On the rebuilding of the interplanetary scintillation pattern. (A15). 489568
 Radio images of the interplanetary turbulent plasma. (A15). 489652
- spatial distribution**
 The large scale distribution of radio sources. (A15). 478287
 Molecular line studies of dark clouds with associated young stellar objects. (A15). [Data] 464632
 4C radio sources in clusters of galaxies. (A15). 492953
- spectra**
 Radio sources in globular cluster fields. (A15). 475393
- star clusters**
 A test of clustering among radio sources in 0.16 sr of the 6C survey. (A15). 481287
- star evolution**
 Statistical evidence on the dynamical evolution of extended radio sources. (A15). 492943
- synchrotron radiation**
 Compact variable extragalactic objects and small-pitch-angle synchrotron theory. (A15). 489442
- variations**
 BL LACERTAE: A variable radio source with prolonged particle generation at a single location. (A15). 464525
 Compact variable extragalactic objects and small-pitch-angle synchrotron theory. (A15). 489442
 Radio polarization of AO 0235+164: A rotating source. (A15). 485898
- velocity**
 Apparent superrelativistic velocities and the chronometric cosmology. (A15). [Data] 464657
- visible radiation**
 Optical identifications of radio sources in the 5C 7 survey. (A15). 475376
 Optical identifications of radio sources in the 5C 6 survey. (A15). 462466
 The radio and optical properties of the BL Lac object PKS 0521-36. (A15). 492880
- visible spectra**
 The redshift difference between the broad and narrow emission lines in OQ 208. (A15). 475368
- x radiation**
 The prospects for X-ray detection of inverse-Compton emission from radio source electrons and photons of the microwave background. (A15). 481270
- x-ray spectra**
 Models for x-ray and radio emission from clusters of galaxies. (A15). 485882
- COSMIC RAY DETECTION:**
 High energy astrophysics in Europe, using balloons. (A15). 483587
 Methods of investigations of cosmic ray variations by means of difference, ionospheric and radiocarbon link coefficients. (A15, B33). 492883
 Summary of expected and observed rates for high energy interactions above 10 TeV. (E41, A15, E16). 492182
 Acoustic detection: A new technique in >10 TeV experiments. (E41, A15). 492062
- calorimetry**
 Neutral to charged ratio for unaccompanied high-energy cosmic-ray hadrons at mountain altitude. (A15). 475339
- dielectric track detectors**
 Experiment definition and integration study for the accommodation of giant, passive detector of exotic particles in the cosmic rays (epit) payload on shuttle/spacelab missions. Final report, 6 jun. 1977 - 5 feb. 1978. (E41). 488266
- electron detection**
 Electron energy and position measurement using lead-scintillator calorimeters with a new light collection system. (E41). 492107
- feasibility studies**
 Observability of the neutrino flux from the inner region of the galactic disk. (E41). 488271
- gamma detection**
 Application of the Anger camera principle in a Compton telescope. (E41). 492101
- gas scintillation detectors**
 A gas proportional scintillation counter for use in large area detector systems without photomultipliers. (E41). 485024
 Large-area scintillation proportional counter for x-ray astronomy. (E41). 466750
- gev range**
 Energy estimates of cosmic ray events. (A15). 460042
- heterodyne receivers**
 On the possibility of submillimetric interstellar lines detection by means of laser heterodyne techniques. (A15). 467792
- isotope ratio**
 The cosmic ray boron and carbon isotopic composition measured in nuclear emulsions. (A15). 492865
- levels**
 Environmental radiation measurements. (E41). 492142
- li-drifted si detectors**
 Thin window Si(Li) detectors for the ISee-C telescope. (E41). 466837
- measuring methods**
 Comment on extensive multiple muon shower. (A15). 481310
- milky way**
 Balloon observation of galactic gamma-ray lines with high resolution Ge(Li) spectrometer. (A15). 489667
- nuclear emulsions**
 Computer Simulation of Emulsion Chamber C-jets using conventional particle physics. (A21). 489778
 Nucleus-nucleus collisions at a mean E=20 GeV/nucleon. (A22). 489946
 Technical aspects - design, scanning and energy measurement in small emulsion chambers. (E41, A15). 492088
 Technology of small emulsion chambers: A new review. (E41, A15). 492180
- nuclei**
 Detection of relativistic cosmic ray iron nuclei in the plastic track detector CR-39. (E41). 492056
- optical systems**
 Report on the Utah fly's eye. (E41, A15, A22). 492070
- proportional counters**
 The cosmic x-ray experiment aboard HEAO-1. (A15, E41). 471900
 Large-area scintillation proportional counter for x-ray astronomy. (E41). 466750
- pulses**
 A sensitive search for radio pulses from primordial black holes and distant supernovae. (A15). [Data] 460111
- relativistic range**
 Detection of relativistic cosmic ray iron nuclei in the plastic track detector CR-39. (E41). 492056
- scintillation counters**
 Akeno air shower project. (E41, A15). 492113
- sound waves**
 Acoustic detection of cosmic-ray air showers. (A15). 478206
- transition radiation detectors**
 A balloon-borne measurement of cosmic electrons with transition radiation detectors. (A15, E41). 467883
- x-ray detection**
 A large area, gas scintillation proportional counter. (E41). 492042
- COSMIC RAY FLUX:**
albedo-neutron doseimeters
 Cosmic ray measurements on a polar orbiting satellite. (B33). 479698
- chondrites**
 Cosmogenic radioisotopes in the Dhajala chondrite: implications to variations of cosmic ray fluxes in the interplanetary space. (A15). 460029
- daily variations**
 On the latitude dependence of the semidiurnal anisotropy of cosmic rays. (A15, B33). 471925
- geos satellites**
 Observations of substorm-associated particle-flux variations at $6 < L < 8$ with GEOS-1. (B33). 460927
- latitude effect**
 On the latitude dependence of the semidiurnal anisotropy of cosmic rays. (A15, B33). 471925
- magnetic storms**
 Observations of substorm-associated particle-flux variations at $6 < L < 8$ with GEOS-1. (B33). 460927
- sea level**
 Sea-level flux determination for heavy cosmic-ray particles. (A15). [Data] 462414
- total cross sections**
 Inelastic nuclear interactions of cosmic ray hadrons with energies greater than 2 TeV. (A15, A22). [Data] 462448
- variations**
 Observations of substorm-associated particle-flux variations at $6 < L < 8$ with GEOS-1. (B33). 460927
 Search for short time-scale periodicity in the X-ray flux of 4U1700. (A15). 489423
 Secular variations in the production of cosmogenic isotopes in the Earth's atmosphere. (B33). [Data] 465850
- water**
 Dose rate and flux density of cosmic muons estimated by TLD method. (C55, A15). [Data] 476747
- COSMIC RAY PROPAGATION:**
 Experimental study of the chemical composition of the heavy cosmic ray nuclei. (A15). 460121
- alfven waves**
 Average properties of cosmic ray diffusion in solar wind streams. (A15). 489590
- cosmological models**
 Evidence for the deficiency of short cosmic ray pathlengths and a physically realistic explanation - the no-near-sources model. (A15). 489563
- electrodynamics**
 Numerical and analytic solutions of the Boltzmann equation for cosmic ray transport. (A15). 485844
- helical configuration**
 A helix predictor-corrector method for cosmic-ray tracing. (B33). 484393

| | |
|--|--------|
| interstellar magnetic fields | |
| Cosmic rays in a large-scale strongly turbulent magnetic field. (A15). | 483555 |
| mathematical models | |
| The diffusion model of cosmic-ray propagation. I. (A15). | 483454 |
| The diffusion model of cosmic-ray propagation. II. (A15). | 483455 |
| The diffusion model of cosmic-ray propagation. III. (A15). | 483456 |
| perturbation theory | |
| A helix predictor-corrector method for cosmic-ray tracing. (B33). | 448393 |
| solar cycle | |
| Cosmic ray modulation during solar activity cycle 20. (A15). | 464613 |
| statistical models | |
| Statistical theory of cosmic ray propagation from discrete galactic sources. (A15). | 489560 |
| COSMIC RAY SOURCES: | |
| <i>See also COSMIC GAMMA SOURCES; COSMIC X-RAY SOURCES; X-RAY GALAXIES</i> | |
| ultraviolet radiation | |
| H II regions around sources of intense ultraviolet radiation. (A15). | 467904 |
| COSMIC RAY SPECTROMETERS: | |
| <i>Spectrometer of isotopes of light nuclei SILYA-4 for investigation of cosmic rays outside the Earth atmosphere. (E41; ¹H, ²H, ³He, ⁴He, Li, Be). 495114</i> | |
| <i>Tskhra-Tskaro new installation for investigations of cosmic ray interactions within the energy range from 0.4 to 10 TeV. (E41). 485018</i> | |
| computer codes | |
| Software for the Aragats muonic spectrometer. (E41, F51). | 488220 |
| gamma detection | |
| Application of time-of-flight coordinate sensitive scintillation systems in gamma-telescopes of a large area. (E41). | 485036 |
| neutron monitors | |
| Elbrus spectrographic complex and investigation of cosmic ray variations by the spectrographic method. (E41). | 485052 |
| Energy and time distributions of neutrons in a neutron supermonitor. (E41). | 485114 |
| Ensuring the reliable data of the spectrograph of cosmic ray variations. (E41). | 485136 |
| tev range 10-100 | |
| Study of nuclear interactions of superhigh energy particles of cosmic rays. (E41). | 474127 |
| COSMIC SHOWERS: | |
| <i>See also EXTENSIVE AIR SHOWERS</i> | |
| <i>Energy spectra of muons, gamma-quanta and hadrons with the energy more than 2 TeV. (A15). 483585</i> | |
| acoustic monitoring | |
| Acoustic detection: A new technique in >10 TeV experiments. (E41, A15). | 492062 |
| cosmic ray detection | |
| Acoustic detection of cosmic-ray air showers. (A15). | 478206 |
| Summary of expected and observed rates for high energy interactions above 10 TeV. (E41, A15, E16). | 492182 |
| gamma cascades | |
| The interpretation of the spectra of high-energy gamma-ray families obtained in the Pamir and Fuji experiments. (A21). | 468027 |
| gamma radiation | |
| Calculation of characteristics of hadrons families. (A15, A21). | 483518 |
| Calculation of nuclear cascade process characteristics in the atmosphere applied to the Pamir experiment. (A15, A21). | 483591 |
| Energy characteristics of families of gamma-quanta with energy release $\sum b(\gamma)E > 30$ TeV (Pamir experiment). (A15, A22). | 483431 |
| Families of gamma-quanta and hadrons of high-energy. (A15, A21). | 483586 |
| High-altitude dependences of family characteristics of gamma-quanta within the energy range from 10 to 100 TeV. (A15, A22). | 483436 |
| Transverse pulses in hadron interactions within the energy range from 10^4 to 10^{15} eV Pamir experiment. (A15, A22). | 483432 |
| hadron reactions | |
| Some 10-100 TeV events. (E41, A15, A21). | 492089 |
| hadron-hadron interactions | |
| Comment on extensive multiple muon shower. (A15). | 481310 |
| hadrons | |
| Calculation of characteristics of hadrons families. (A15, A21). | 483518 |
| Observation of energetic delayed hadrons in air showers: New massive particles. (A15, A22). | 485874 |
| mass spectra | |
| Homestake neutrino detector as a cosmic ray composition analyser. (E41, A15, A22). | 492075 |
| muons | |
| Comment on extensive multiple muon shower. (A15). | 481310 |
| pair production | |
| Cosmic ray evidences for short-lived particles. (E41, A15, A21). | 492140 |
| particle production | |
| New type of nuclear interactions in the SE/sub lt. slash/> 10^{14} eV region. (A15, A22). | 489489 |
| photon-electron interactions | |
| A set of subroutines for simulation of electron-photon cascades. (A21, F51). | 483676 |
| photons | |
| Definition of the cluster mass standing out into gamma-quanta. (A15, A22). | 483433 |
| Energy characteristics of gamma-quanta from interactions of cosmic ray hadrons in the energy range of several tens of TeV. (A15). | 483425 |
| simulation | |
| A set of subroutines for simulation of electron-photon cascades. (A21, F51). | 483676 |
| sound waves | |
| Acoustic detection of cosmic-ray air showers. (A15). | 478206 |
| stratosphere | |
| Energy spectra of electrons and γ -quanta in the stratosphere in 34.5 N latitude. (B33). | 469548 |
| Energy spectrum of cascade electrons in the stratosphere in 34.5 deg N latitude. (B33). | 469549 |
| time dependence | |
| Arrival-time distribution of muons and electrons in large air showers observed at 5200m above sea level. (A15). | 489389 |
| COSMIC X-RAY SOURCES: | |
| <i>See also X-RAY GALAXIES</i> | |
| <i>Balloon experiment for the observation of cosmic x-ray sources. (A15). 483560</i> | |
| <i>High energy astrophysics in Europe, using balloons. (A15). 483587</i> | |
| <i>On the unidentified high-latitude X-ray sources. (A15). 467839</i> | |
| absorption spectra | |
| O I lambda 7773 absorption in optical counterparts of X-ray sources. (A15). | 481313 |
| ariel satellites | |
| Observations of impact X-ray sources with the Ariel V sky survey experiment. (A15). | 475384 |
| astronomy | |
| X-ray astronomy. (A15). | 485840 |
| binary stars | |
| Evidence for noncircular orbits in x-ray binaries. (A15). | 475307 |
| Observations of pulsating X-ray binaries 4U0900-40 and 4U1223-62. (A15). | 489547 |
| black holes | |
| GX-339-4: a new black hole candidate. (A15). [Data] | 471906 |
| Modern state of data on the Cygnus X-1. (A15). | 485895 |
| Status report on Cygnus X-1. (A15). | 467803 |
| brightness | |
| Optical clues to the nature of Hercules X-1/HZ Herculis. (A15). | 478247 |
| [Data] | |
| compton effect | |
| Compton scattering effects observed in Sco X-1 and similar sources. (A15). | 492935 |
| coordinates | |
| On the identification of the high-latitude X-ray source 2A 1219 + 305. (A15). | 462490 |
| correlations | |
| High-resolution map of G339.6-0.1 and its possible association with 4U 1642-45. (A15). | 489516 |
| Near-infrared photometry of HDE 245770 (A 0535 + 26). (A15). | 462467 |
| [Data] | |
| cosmic ray flux | |
| The 78.4-day period of Cygnus XR-1. (A15). | 485864 |
| d region | |
| On the relationship between the transient X-ray sources and the electron density perturbations in the ionosphere D-region. (B33). | 479725 |
| emission spectra | |
| Bizarre spectrum of SS 433. (A15). | 489576 |
| Spectral contamination in binary x-ray systems: gas flow effects on mass determinations. (A15). | 467881 |
| energy sources | |
| Energy sources for X-ray cluster emission. (A15). | 462463 |
| energy spectra | |
| Bizarre spectrum of SS 433. (A15). | 489576 |
| Comptonization and radiation spectra of X-ray sources. Monte Carlo calculations. (A15). | 492972 |
| Observations of three binary x-ray sources: Cyg X-1, Cyg X-2, and 4U1813+50 (AM Her). (A15). | 460113 |
| explosions | |
| Theory of cosmical coherent avalanche catastrophes. (A15). | 467736 |
| galaxy clusters | |
| The evolution of cluster X-ray sources: subcluster collisions. (A15). | 471818 |
| Predicting the X-ray brightness distributions of cluster sources. (A15). | 492992 |
| galaxy nuclei | |
| X-rays from active galactic nuclei: Inverse compton reflection. (A15). | 485901 |
| gamma radiation | |
| On the periodical very high energy gamma-ray emission from Cyg X-3. (A15). | 483535 |
| gravitational radiation | |
| Theory of cosmical coherent avalanche catastrophes. (A15). | 467736 |
| hard x radiation | |
| Hard X-ray spectrum of Cyg X-1. (A15). | 489640 |
| Hard x-ray variability in binary x-ray sources. (A15). | 467902 |
| hydrodynamics | |
| Time-dependent spherically symmetric accretion onto compact x-ray sources. (A15). | 467793 |
| hydrostatics | |
| Hydrostatic structure of a hot plasma and x-ray morphology in non-spherical clusters of galaxies. (A15). | 481272 |
| infrared radiation | |
| Infrared observations of galactic X-ray sources. (A15). | 475274 |
| intergalactic space | |
| Extragalactic X-ray observations. (A15). | 489611 |
| Extragalactic X-ray sources and the diffuse X-ray background. (A15). | 489654 |
| kev range 01-10 | |
| The X-ray astronomy experiment. (A15). | 478328 |

| | | |
|---|---------------------------------|--|
| | key range 10-100 | |
| The X-ray astronomy experiment. (A15). | 478328 | |
| | luminosity | |
| Continuum optical pulsation from the companions of binary X-ray pulsars. (A15). [Data] | 464541 | |
| Luminosity-temperature relation for cluster x-ray sources. (A15). | 489519 | |
| | magnetic fields | |
| Structured coronae of accretion disks. (A15). | 489493 | |
| | mass | |
| Spectral contamination in binary x-ray systems: gas flow effects on mass determinations. (A15). | 467881 | |
| | mathematical models | |
| SS 433: a double jet in action. (A15). | 462438 | |
| | near infrared radiation | |
| Discovery of IR bursts from Liller L/MXB1730-333. (A15). | 492930 | |
| | neutron stars | |
| Neutron stars as X-ray burst sources. II. Burst energy histograms and why they burst. (A15). | 464527 | |
| | novae | |
| A comparison of optical and X-ray novae. (A15). | 481244 | |
| | optical modes | |
| Optical pulsation from the HZ Her/Her X-1 system. (A15). | 460035 | |
| | optical properties | |
| Optical observations of X-ray sources. (A15). | 475306 | |
| | photometry | |
| Observations of three binary x-ray sources: Cyg X-1, Cyg X-2, and 4U1813+50 (AM Her). (A15). | 460113 | |
| Photometric study of the x-ray pulsar 4U 1626-67. (A15). | 475279 | |
| | pulsations | |
| A0535+26: Refined position measurement and new pulse period data. (A15). | 489564 | |
| A search for x-ray pulsations from the galactic center. Final report. (A15). | 485853 | |
| Semi-periodic pulsations in circinus X-1. (A15). [Data] | 471903 | |
| | pulses | |
| A 3-s delay in an optical burst from X-ray burst source MXB1735-44. (A15). | 471866 | |
| | quasars | |
| HEAO 1 observations of high-energy X rays from 3C273. (A15). [Data] | 462470 | |
| | radiowave radiation | |
| Models for x-ray and radio emission from clusters of galaxies. (A15). | 485882 | |
| Radio identifications of 11 x-ray sources at 2 cm. (A15). | 471797 | |
| Radioemission from compact X-ray sources. (A15). | 475301 | |
| Simultaneous radio and X-ray observations of the X-ray burst source MXB 1636 - 53. (A15). [Data] | 462485 | |
| | seifert galaxies | |
| NGC4593 - a bright Seyfert galaxy with variable X-ray emission. (A15). | 492868 | |
| Observations of type 1 Seyfert galaxies with the HEAO-1 scanning modulation collimator. (A15). | 492903 | |
| Seyfert galaxies as x-ray sources. (A15). | 471800 | |
| | soft x radiation | |
| Brightness distribution of diffuse soft X-rays. (A15). | 483500 | |
| The HEAO-A2 soft X-ray survey of cataclysmic variable stars: EX Hydrae during optical quiescence. (A15). | 481255 | |
| | spatial distribution | |
| Extragalactic X-ray sources and the diffuse X-ray background. (A15). | 489654 | |
| Large-scale distribution of galactic X-ray sources. (A15). | 489617 | |
| | spectrophotometry | |
| Optical counterpart of 2A0311 - 227. (A15). | 489658 | |
| | star accretion | |
| A model for the Rapid X-ray Burster. (A15). | 489402 | |
| Structured coronae of accretion disks. (A15). | 489493 | |
| Time-dependent spherically symmetric accretion onto compact x-ray sources. (A15). | 467793 | |
| | star evolution | |
| Evolution of cluster x-ray sources. (A15; Redshift). | 464637 | |
| | star models | |
| A model for the Rapid X-ray Burster. (A15). | 489402 | |
| The possible black hole binary HD 152667. (A15). | 471843 | |
| | supernova remnants | |
| Some recent observations of supernova remnants emitting X-rays. (A15). | 481323 | |
| | telescopes | |
| The design of optimum coded mask X-ray telescopes. (A15). | 475387 | |
| An instrument to image extended x-ray sources; and the galactic x-ray background. (A15). | 481301 | |
| | transients | |
| X-ray bursters and "soft" x-ray transients: different phenomena from the same objects. (A15). [Data] | 464569 | |
| X-ray transient sources. (A15). | 489397 | |
| | variations | |
| Identification of the variable X-ray sources GX 339-4 and MXB 1659-29 by the scanning modulation collimator on HEAO 1. (A15). | 481263 | |
| Intensity and spectral variability of strong galactic x-ray sources observed by ANS. (A15). | 475369 | |
| Narrow-band photoelectric observations of V1357Cyg (Cyg X-1) and AM Her (4U1813+50). (A15). | 492924 | |
| Search for short time-scale periodicity in the X-ray flux of 4U1700. (A15). | 489423 | |
| The 78.4-day period of Cygnus XR-1. (A15). | 485864 | |
| | x radiation | |
| The detection of an X-ray outburst from the old nova GK Per. (A15). | 475321 | |
| Simultaneous radio and X-ray observations of the X-ray burst source MXB 1636 - 53. (A15). [Data] | 462485 | |
| X-ray source counts at high galactic latitude from measurements of fluctuations in the X-ray background. (A15). | 475388 | |
| | x-ray detection | |
| A survey of the X-ray sky with HEAO A-1. (A15). | 489491 | |
| | x-ray spectra | |
| A0535+26: Refined position measurement and new pulse period data. (A15). | 489564 | |
| Balloon observation of the binary X-ray source Her X-1 1.24 sec pulsation and cyclotron line emission. (A15). [Data] | 483549 | |
| Consequences of narrow cyclotron emission from Hercules X-1. (A15). | 467961 | |
| Detection of soft X-rays from α Lyrae and eta Bootis with an imaging X-ray telescope. (A15). | 489646 | |
| Discovery of iron line emission in the Hercules X-1 low-state spectrum with HEAO-1. (A15). | 478325 | |
| Extended x-ray observations of Scorpius X-1 with a Bragg crystal spectrometer. (A15). | 475337 | |
| Further analysis of SAS 3 observations of the rapid burster (MXB 1730-335). (A15). [Data] | 464621 | |
| High energy x-ray spectra of Cygnus XR-1 observed from OSO-8. (A15; 15 to 250 keV). | 478231 | |
| Identification of the variable X-ray sources GX 339-4 and MXB 1659-29 by the scanning modulation collimator on HEAO 1. (A15). | 481263 | |
| Intensity and spectral variability of strong galactic x-ray sources observed by ANS. (A15). | 475369 | |
| Joint observations of 4U1223-62 by the SAS-3 satellite and Columbia University proportional counter experiment on NASA rocket 26.054 UH. Final report, 1 Aug. 1977 - 31 Jul. 1978. (A15). | 485914 | |
| Location of the recurrent (LMC.) X-ray transient A0538-66 with the HEAO 1 scanning modulation collimator. (A15). | 489532 | |
| Measurement of x-ray iron line emission from Cygnus X-3 with the OSO 8 crystal spectrometer. (A15). | 475320 | |
| Models for x-ray and radio emission from clusters of galaxies. (A15). | 485882 | |
| Optical clues to the nature of Hercules X-1/HZ Herculis. (A15). [Data] | 478247 | |
| Period derivative of Cygnus X-3. (A15). | 485896 | |
| Soft x-ray emission from the Lupus Loop and SN 1006 supernova remnants. (A15). | 485944 | |
| X ray spectra of X Per. (A15). | 485842 | |
| X-ray emitting BL lacertae objects located by the scanning modulation collimator experiment on HEAO 1. (A15). | 485927 | |
| X-ray observations of high-excitation emission-line galaxies with the HEAO 1 scanning modulation collimator. (A15). | 489503 | |
| X-ray spectra of A0620-00 obtained with a Bragg crystal spectrometer. (A15). | 475336 | |
| | x-ray spectrometers | |
| A survey of the X-ray sky with HEAO A-1. (A15). | 489491 | |
| | COSMOCHEMISTRY: | |
| Chemistry of interstellar space. (A15). | 483481 | |
| Three-level models of chemical evolution. (A15). | 489518 | |
| | COSMOGONY: | |
| See COSMOLOGY | | |
| | COSMOLOGICAL MODELS: | |
| Cosmological model with inhomogeneous space and nonuniform time. (A15). | 483419 | |
| Cosmology: new or classical physics. (A15). | 462476 | |
| Dark sky paradox and the origin of the Universe. (A15). | 467966 | |
| Limits of space and time: exploding black holes and origin of the universe. (A15). | 478337 | |
| Physical interpretation of the combinatorial hierarchy. (A21, A15, A11). | 460162 | |
| Space, time, and gravity. The theory of the big bang and black holes. (A11, A15; Book). | 467141 | |
| Taking the lid off cosmology. (A15). | 492902 | |
| Towards a 'correctionless' observational cosmology. (A15). | 471799 | |
| | adiabatic processes | |
| Production of new cosmological perturbations during the radiation-dominated era. (A15). | 475385 | |
| | analytical solution | |
| Cosmological solutions for the homogeneous isotropic universe in the Brans-Dicke theory. (A15). | 462462 | |
| | antimatter | |
| Annihilation model of the QSOs. (A15). | 478199 | |
| | background radiation | |
| Production of fluctuations in the early universe by the quark-nucleon phase transition. (A15). | 489554 | |
| | baryon number | |
| Matter-antimatter accounting, thermodynamics, and black-hole radiation. (A15, A21). | 475426 | |
| | causality | |
| The causal universe. (A15). | 471773 | |
| A rotating universe with violation of causality. (A15). | 475389 | |
| | charged particles | |
| A radiating charged particle in Einstein's universe. (A15). | 462465 | |
| | conformal groups | |
| Spatially homothetic cosmological models. (A15). | 462457 | |
| | cosmic gases | |
| Spectral appearance of non-uniform gas at high z. (A15). | 492910 | |
| | droplets | |
| Fluid-drops as cosmological models. (A15). | 489464 | |
| Fluid-drops as cosmological models. (A15). | 489465 | |
| | einstein field equations | |
| A radiating charged particle in Einstein's universe. (A15). | 462465 | |
| Space-time homogeneous models with torsion. (A11, A15). | 463920 | |
| Spatially homogeneous and inhomogeneous cosmologies with equation of state $p = \mu$. (A15). | 471933 | |

- equations of motion**
Thin spherical shells. (A15). 489553
- equations of state**
Spatially homogeneous and inhomogeneous cosmologies with equation of state $p = \mu$. (A15). 471933
- fluids**
A fluid basis for matter and energy. (A15). 489504
- fundamental constants**
Observable relations in an inhomogeneous self-similar cosmology. (A15). 489656
- galactic evolution**
Evolution of density fluctuations during recombination. (A15). 475201
A model of pregalactic evolution. (A15). 492909
- general relativity theory**
A cylindrically symmetric universe in general relativity. (A11). 459698
- gravitational fields**
Dragging effect on the inertial frame and the contribution of matter to the gravitational "constant" in a closed cosmological model of the Brans-Dicke theory. (A15, A11). 489589
Electromagnetic Gowdy universe. (A15, A11). 489437
A gravitationally non-degenerate viscous fluid cosmological model in general relativity. (A11). 467119
On anisotropic and homogeneous cosmological models in the renormalized theory of gravitation. (A15). 471926
- gravitational waves**
Cosmological model with gravitational and scalar waves. (A15, A11). 475227
- hadrons**
Cosmological constraints on new stable hadrons. (A15, A21). 485865
- helium**
Time-varying gravity and the abundance of helium. (A15). 492864
- hubble effect**
Future of the universe. (A15). 489608
- inhomogeneous fields**
Classical nonlinear dynamics of coupled waves in model universes. (A15). 464538
- isothermal processes**
Production of new cosmological perturbations during the radiation-dominated era. (A15). 475385
- isotropy**
The isotropization of low-density cosmological models. (A15). 489430
Qualitative isotropic cosmology with a cosmological constant taking into account dissipation. (A15). 475364
- mach principle**
Integral formulation of Einstein's equations and Mach's principle. (A11). 467101
- matter**
Matter-antimatter accounting, thermodynamics, and black-hole radiation. (A15, A21). 475426
- metrics**
A gravitationally non-degenerate viscous fluid cosmological model in general relativity. (A11). 467119
- neutrinos**
Astrophysical limits to weak interaction phenomenology. (A21, A15; Big-bang modifications, neutrino emission, weak neutral current). 468097
- pair production**
Cosmological particle creation as above-barrier reflection: approximation method and applications. (A15). 489408
- particle production**
Particle emission in the de Sitter universe for massless fields with spin. (A15). 462455
- perturbation theory**
Tilted Bianchi type-III cosmologies. (A15, A11). 475263
- quantum field theory**
Konstant-Souriau quantization of Robertson-Walker cosmologies with a scalar field. (A15). 483486
- red shift**
An additional model for the stellar red shift. (A15). 483469
- reviews**
New cosmos. Second Edition. (A15; Book). 460140
- rotation**
A rotating universe with violation of causality. (A15). 475389
- scalar fields**
Cosmological model with gravitational and scalar waves. (A15, A11). 475227
- schwarzschild metric**
The large numbers hypothesis and the Einstein theory of gravitation. (A11, A15). 467032
- singularity**
Generalized lagrangian of ideal liquid and nonsingular cosmological model of space-time. (A15). 475429
A non-singular quantum Universe. (A15). 462435
- space-time**
Integral formulation of Einstein's equations and Mach's principle. (A11). 467101
Reissner - Nordstroem - de Sitter metric, the third law, and cosmic censorship. (A15, A11). 467857
Sideways in time. (A15). 471825
Spatially homothetic cosmological models. (A15). 462457
Thin spherical shells. (A15). 489553
- star evolution**
Theoretical isochrones in the case of stellar evolution with variable G (Brans-Dicke cosmological theory). (A15). 475332
- thermal radiation**
Particle emission in the de Sitter universe for massless fields with spin. (A15). 462455
- universe**
A model of expanding universe with continuous mass-creation. (A15). 467930
- vortex flow**
Perfect fluids expanding with both vorticity and shear. (A15). 464603
- vortices**
A fluid basis for matter and energy. (A15). 489504
- weak interactions**
Astrophysical limits to weak interaction phenomenology. (A21, A15; Big-bang modifications, neutrino emission, weak neutral current). 468097
- yang-mills theory**
On the way towards a nonsingular gravitational collapse - the properties of the Yang-Mills cosmos. (A15). 462426
- COSMOLOGY:**
Cosmology. (A15). 462412
Large numbers, cosmic coincidences and gravity. (A15, A11). 467830
Origin of magnetic fields and superdense cosmogony. (A15). 467885
Towards a 'correctionless' observational cosmology. (A15). 471799
- baryon number**
Cosmological production of baryons. (A15). 478361
- baryons**
Light-element abundances, galactic evolution, and the universal baryon density. (A15). 478294
- cosmic radio sources**
Apparent superrelativistic velocities and the chronometric cosmology. (A15). 464657
- galaxy clusters**
Primordial inhomogeneities in the expanding universe. I. Density and velocity distributions of galaxies in the vicinities of rich clusters. (A15). 489631
- general relativity theory**
Lectures on general relativity and cosmology. (A15, A11). 489593
- geophysics**
Cosmology and geophysics. (A15). 467963
- gravitation**
High-intensification regions of gravitational lenses. (A15). 464534
- infrared radiation**
Cosmological aspects of infrared and millimetre astronomy. (A15). 462456
- mach principle**
On Reinhardt's paper 'A conservative explanation of a Machian argument'. (A15). 475184
- magnetohydrodynamics**
Magnetohydrodynamics and cosmology. (A15). 481242
- neutrinos**
Are there any cosmological constraints on the number of neutrinos. (A15). 489566
Dynamical role of light neutral leptons in cosmology. (A15, A21). 464672
Neutrinos and cosmology. (A21). 489888
- nucleosynthesis**
Constraints on cosmology and neutrino physics from big bang nucleosynthesis. (A15). 464694
Cosmology of a charged universe. (A15). 464532
Light-element abundances, galactic evolution, and the universal baryon density. (A15). 478294
- photons**
Photon condensation in the big bang cosmology and longitudinal background radiation of the universe. (A15). 460088
- quantum field theory**
Nonsingular cosmology as a quantum vacuum effect. (A15). 478297
- space-time**
Repulsive and attractive timelike singularities in vacuum cosmologies. (A15). 489587
Space and time in the cosmological context. (A15). 483554
- supersymmetry**
Local supersymmetry and interactions. (A21, A11). 475517
- COSMOS:**
See UNIVERSE
- COST:**
optimization
NUSTRA - optimization code for nuclear reactor strategies. (F51, E30). 463833
- COST BENEFIT ANALYSIS:**
developing countries
ICRP-26; cost-benefit analysis and nuclear energy in developing countries. (F11). 482931
- nuclear energy**
ICRP-26; cost-benefit analysis and nuclear energy in developing countries. (F11). 482931
- COTTON:**
copolymerization
Improvement of the dimensional change and crease resistance of cotton and cellulose rayon fabrics by irradiation graft copolymerization (initiated by free radical) Recent technological development of French textile machinery. (B14). [Data] 468956
- graft polymers**
Improvement of the dimensional change and crease resistance of cotton and cellulose rayon fabrics by irradiation graft copolymerization (initiated by free radical) Recent technological development of French textile machinery. (B14). [Data] 468956
- COTTON PLANTS:**
insecticides
Isotopic tracer aided studies on the fate of leptophos residues in cotton seed and its products under Pakistan conditions. (C42; 4-bromo-2,5-dichlorophenyl methyl phenyl phosphonothioate). 463321

COUETTE FLOW:

heat flux

Axial heat transport through an annular duct with rotating inner cylinder. (A17, E11). 478392

COULOMB ATTRACTION:

See COULOMB FIELD

COULOMB BARRIER:

See COULOMB FIELD

COULOMB ENERGY:

charge independence

Coulomb energy anomaly and charge-dependent nuclear forces. (A33). 475746

mirror nuclei

Coulomb displacement energies and Hartree-Fock densities. (A33). 481463

nuclear forces

Coulomb energy anomaly and charge-dependent nuclear forces. (A33). 475746

COULOMB EXCITATION:

cross sections

Determination of ion-induced K-shell ionization cross sections by comparison with nuclear Coulomb excitation. (A12, A34). 488782

matrix elements

Recurrence relations for Coulomb excitation matrix elements. (A33). 490112

platinum 196

Lifetime measurements of 2_1^+ and 4_1^+ states in ^{196}Pt by plunger method. (A34). [Data] 490131

COULOMB FIELD:

coherent production

Positrons from 1.4-GeV uranium-atom collisions. (A12, A11). [Data] 464027

eigenvalues

Dynamical symmetries in a spherical geometry. (A11). 462084
On the computation of eigenenergies for potentials with a Coulomb tail. (A12). 483132

hamiltonians

On the one-dimensional Coulomb Hamiltonian. (A11). 488610

inelastic scattering

Coulomb effects in inelastic pion-nuclear scattering. (A32). 490023

phase shift

Phaseshifts in the Coulomb two-centre problem. (A12). 477693

sine-gordon equation

Screening properties of a classical two-dimensional Coulomb gas from the sine-Gordon equation. (A11). 477624

COULOMB IONIZATION:

(Ionization produced by Coulomb forces between a projectile and the target.)

k shell

Simple relativistic correction of the scaling parameter for K-shell Coulomb ionisation. (A12). 483237

COULOMB POTENTIAL:

See COULOMB FIELD

COULOMB REPULSION:

See COULOMB FIELD

COULOMB SCATTERING:

Part 3. Nuclear physics. (A33). 486258

magnetic fields

Electron scattering from a center of force in strong magnetic fields. (A14). 467655

two-body problem

The use of Coulomb wavefunctions in momentum space for two-particle scattering. (A32). 493132

COULOMETRY:

See VOLTAMETRY

COUMARIN:

chemical dosimeters

The aqueous coumarin system as a low range chemical dosimeter. (E41). [Data] 470820

COUNCIL FOR MUTUAL ECON ASSIST:

See COMECON

COUNTERS (RADIATION):

See RADIATION DETECTORS

COUNTING CIRCUITS:

readout systems

Serial counting channel with buffer memory in CAMAC standard for filmless readout system of optical track detectors. (E42). 495152

COUNTING RATEMETERS:

See also LINEAR RATEMETERS

response functions

Transient characteristics of continuous radiogauges. (D22). 470261

COUNTING RATES:

functions

Lossy integrator response for time variable counting rate. (E41). 488230

probability

Rigorous expression for the joint factorial moments of the neutron and count bivariate distribution in an infinite homogeneous multiplying system. II. (E41, F51). 492067

pulse integrators

Lossy integrator response for time variable counting rate. (E41). 488230

COUNTING TECHNIQUES:

See also ABSOLUTE COUNTING; CHARGE PLUNGER METHOD; COINCIDENCE METHODS; COINCIDENCE SPECTROMETRY; LOW LEVEL COUNTING; RADIOISOTOPE SCANNING; SCINTILLATION COUNTING; SCINTISCANNING; TAGGED PHOTON METHOD; WHOLE-BODY COUNTING

Detection and counting systems. (E41). 482814

comparative evaluations

Carbon-14 dating: a comparison of beta and ion counting. (B31, B11). 476460

data processing

An automatic sample changer and microprocessor-controlled data router for a small bulk-sample counter. (E41). 488264

dead time

Self-checking of count losses on pulse measuring systems. (E41). 485118

ionization chambers

A two-detector method for relative activity measurements with cylindrical ionization chambers. (E41, D15). 477353

statistics

Counting techniques-statistics. (D15). 482524

COUNTING TUBES:

charged particle detection

Parallel plate avalanche counter (PPAC). (E41). 461813

COUPLE CORROSION:

See ELECTROCHEMICAL CORROSION

COUPLED CHANNEL THEORY:

nuclear potential

Coupled-channel analysis with double-folding potential of ^{16}O and ^{18}O scattering on Ni and Ge isotopes. (A33). 475726

COUPLED F-REACTOR MEAS.FACIL.:

See CFRMF REACTOR

COUPLING:

(Not for the concept covered by JOINING.)

See also J-J COUPLING; L-S COUPLING

statistics

Statistical inference in coupled quantum systems. (A11). 477584

COUPLING CONSTANTS:

elementary particles

Compilation of coupling constants and low-energy parameters. (A21). [Data] 472030

kaon reactions

Kaon-nucleus scattering and kaon-nuclear coupling constants. (A21). [Data] 493054

supersymmetry

Stability and supersymmetry. (A11, A21; Perturbation theory, renormalization group). 459663

COVER GAS:

(The inert gas blanket over the liquid metal in a liquid metal cooled reactor.)

impurities

A test set-up of analysers for determining non-metallic impurities in liquid sodium and in the sodium cover gas. (B11). 465269

thermal shields

Process and device of thermal shielding of the vessel of a nuclear reactor. (E35; LMFBR type reactor, cover gas). 470746

COW-MILKERS:

See RADIOISOTOPE GENERATORS

COWS:

estrous cycle

Hormone levels in peripheral plasma of the Afrikaner cow: Pt. 1. (C45). 469868

lactation

Hormone levels in the peripheral blood of the Afrikaner cow: Pt. 3. (C45). 469870

parturition

Hormone levels in peripheral plasma of the Afrikaner cow: Pt. 2. (C45). 469869

pregnancy

Hormone levels in peripheral plasma of the Afrikaner cow: Pt. 2. (C45). 469869

radionuclide kinetics

Biological transport of curium-243 in dairy animals. (C21; Comparison to ^{241}Am kinetics in lactating cows and goats). [Data] 479963

CP INVARIANCE:

CP violation and instantons. (A21). 489808

quark model

Strong CP invariance with new massless quarks. (A21). 478421

strong interactions

Technicolored solution to the strong CP problem. (A21). 489770

symmetry breaking

SU(4) x U(1) gauge theory. II. CP nonconservation. (A21, A11). 486030

weak hadronic decay

A new test of CP noninvariance in nonleptonic decay of mesons containing one bottom quark. (A21). 489733

weak neutral currents

CP violation and off-diagonal neutral currents. (A21). 475609

weinberg lepton model

Solution of the strong CP problem in models with scalars. (A21; Higgs field coupling, color group extension heavy axion). 489769

CP-5 REACTOR:

energy spectra

Determination of the neutron flux and energy spectrum in the low-temperature fast-neutron facility in CP-5, calculations of primary-recoil and damage-energy distributions, and comparisons with experiment. (E36). 470781

neutron spectra

Determination of the neutron flux and energy spectrum in the low-temperature fast-neutron facility in CP-5, calculations of primary-recoil and damage-energy distributions, and comparisons with experiment. (E36). 470781

CRAB NEBULA:

electron spectra

On the nature of the pulsar PSR 0531+21 radiation. (A15). 485915

- emission spectra**
Some considerations upon the emission line spectrum of the Crab Nebula. (A15). [Data] 475168
- gamma radiation**
Low energy gamma ray astronomy from Apollo 16. (A15; Inverse Compton effect). 460068
- polarization**
Optical and X-ray pulses from the crab. (A15). 489478
- pulsars**
Optical and X-ray pulses from the crab. (A15). 489478
- radiation flux**
Upper limit for coherent electromagnetic radiation at Crab pulsar frequency. (A15). 475427
- star evolution**
Is Crab nebula a disrupted helium star. (A15). 460085
- star models**
A model for the unpulsed light from the Crab pulsar. (A15). 471804
- structural models**
On the structure of the Crab Nebula. (A15). 489580
- CRABS:**
See CRUSTACEANS
- CRACKS:**
electrical testing
Measurement of crack depths with the direct current conduction method. (E17). 466575
- growth**
Corrosion fatigue of pressure vessel steel A533B. Part. (B22, B25). 479396
- heat affected zone**
The significance of relaxation cracks for the integrity of light water reactor pressure vessels. (E32). 473882
- materials testing**
Method for the determination of the crack depth of cracks in work pieces. (E17). 466581
- rocks**
An analysis of the state of strain around different geometries with radial cracks in an indefinite medium due to expansive forces. (E52). 461977
- steels**
Steady crack growth. (B22, E22). 465648
- stress analysis**
Stress intensity distributions in nozzle corner cracks of complex geometry. (E31, B22). 466677
- ultrasonic testing**
Tensile cracks in creeping solids. (B22). 494020
- ultrasonic testing**
Ultrasonic assessment of crack size in CANDU pressure tubes. (E34). 463656
- 90°-longitudinal waves probe for detection of near surface cracks.** (E42, E17). 470991
- zircaloy**
Stress corrosion crack growth in unirradiated zircaloy. (B22, E52). [Data] 479436
- CRANES:**
performance
Single-failure-proof cranes for nuclear power plants. (E31, E32; PWR; BWR). 488048
- CRANKING MODEL:**
Nuclei at very high angular momentum. (A33). 468256
- Some aspects of rotational motion. (A33).** 468281
- angular momentum**
Microscopic derivation of cranking for nuclear systems with large angular momentum. (A33). 472167
- coriolis force**
Coriolis interaction. (A33). 478652
- harmonic oscillator models**
Complete solution of the cranked harmonic oscillator. (A33). 481516
- Lagrange multipliers in the cranked harmonic oscillator model.** (A33). 478683
- moment of inertia**
Calculation of nuclear deformations and collective spectra starting from a density-dependent, finite-range nuclear force. (A33). 468314
- yrast states**
Microscopic description of the nuclear triaxial rotor at high angular momentum near the yrast line. (A33). 465012
- CRATERING EXPLOSIONS:**
performance testing
Single-charge craters excavated during subsurface high-explosive experiments at Big Black Test Site, Mississippi. (E14). 466509
- scaling laws**
Scaling of cratering experiments: an analytical and heuristic approach to the phenomenology. (E14). 466506
- shales**
Effect of porosity on the cratering efficiency of underground peaceful nuclear explosions in a shale medium. (E14). 494707
- CRATERS:**
dimensions
Single-charge craters excavated during subsurface high-explosive experiments at Big Black Test Site, Mississippi. (E14). [Data] 466509
- lunar materials**
Emplacement of Fahrenheit crater ejecta at the Luna-24 site. (A15). 475406
- scaling laws**
Evidence for gravity scaling and implications for explosion craters. (E14). 480391
- CRBR REACTOR:**
See CLINCH RIVER BREEDER REACTOR
- CRE:**
See CUMULATIVE RADIATION EFFECTS
- CREATION OPERATORS:**
New creation and annihilation operators in the Gauss plane and quantum friction. (A11). 488638
- fock representation**
On a certain Fock type representation of the Lie superalgebra A(0,1). (A11). 467104
- CREEKS:**
See RIVERS
- CREEP:**
building materials
Survey of creep data on structural materials of fast breeder reactor. (B22). 469343
- chromium-molybdenum steels**
Mechanical properties data of 2-1/4Cr-1Mo steel for the experimental very high temperature gas-cooled reactor. (B22). [Data] 490616
- data**
Pre-analysis assessment of creep-rupture data. (B22). 493937
- destructive testing**
Tensile creep rupture at cyclic load variation. (B22). 484173
- dislocations**
Effect of dislocation splitting width on high-temperature creep rate. (B22). 469146
- fracture properties**
The effect of age hardening on creep crack growth in alloy 800. (B22). 469295
- incoloy 800**
Creep rupture ductility of alloy 800. (B22). [Data] 462869
- mathematical models**
Report of Research Cooperation Sub-Committee 46 on research and development of methods for inelastic (EPICC: Elastic-Plastic-Creep) structural analysis. (B22, E35). 469339
- measuring methods**
Evaluation of elevated temperature creep and rupture strength data: an historical perspective. (B22). 493955
- mechanical tests**
The creep and stress-rupture behaviour under internal pressure of tubes made from austenitic stainless steel X8 CrNiMoNb 1616 (Material No. 1.4981). (B22). 481842
- physical radiation effects**
Comparison of the in-reactor creep of selected ferritic, solid solution strengthened, and precipitation hardened commercial alloys. (B25). 469451
- Dependence of radiation creep rate on the intensity of point defect formation and on temperature. (B25).** 465740
- Effect of neutron irradiation on creep properties of 18Cr-11Ni (DIN 1.4948) stainless steel plate and welded joints at 823 K. (B25, E22, E35). [Data]** 479551
- Effects of an anisotropic dislocation structure on irradiation creep due to stress induced preferred absorption of point defects. (B25).** 469467
- Irradiation creep by climb-enables glide of dislocations resulting from preferred absorption of point defects. (B25).** 481901
- Neutron irradiation-induced creep of helium pressurized 304L stainless steel capsules. (B25).** 469440
- Thermal analysis of an in-reactor LMFBR irradiation creep experiment. (E17, E35).** 491695
- ruptures**
The creep and stress-rupture behaviour under internal pressure of tubes made from austenitic stainless steel X8 CrNiMoNb 1616 (Material No. 1.4981). (B22). 481842
- tracer techniques**
Radiometric study of creep in ingot rolling. (D22). 476862
- transients**
A phenomenological theory of transient creep. (B22). [Data] 472621
- zircaloy 4**
In-pile stress relaxation of heat-treated zircaloy-4 specimens in bent-beam mode. Final report. (B22). [Data] 484246
- CRESOLS:**
metabolism
Metabolism of butylated hydroxytoluene in mice. Radioactivity associated with blood and expired carbon dioxide after administration of ¹⁴C butylated hydroxytoluene. (C21). 494332
- radiolysis**
Radiation purification of sewage from phenols. (D23, B14). 491437
- CRESYLIC ACID:**
See CRESOLS
- CREYS-MALVILLE REACTOR:**
See SUPER PHENIX REACTOR
- CRICETULUS:**
See HAMSTERS
- CRIME DETECTION:**
autoradiography
The application of radioactive bromine isotopes for the visualisation of latent fingerprints. (B11, B13). 472346
- fingers**
The application of radioactive bromine isotopes for the visualisation of latent fingerprints. (B11, B13). 472346
- neutron activation analysis**
New method in the criminalistics: neutron-activation analysis of the human hair. (B11). 493497
- CRITICAL ASSEMBLIES:**
See ZERO POWER REACTORS
- CRITICAL CURRENT:**
roughness
Surface effect on the critical current density of superconducting niobium. (B22). [Data] 460679
- stresses**
Stress-induced enhancement of critical currents in multifilamentary Nb₃Sn conductors. (B22). 490630

- type-ii superconductors**
Structure dependent anisotropy of superconducting critical currents in sputtered and evaporated Nb₃Ge films. (B22, A17). 472628
- CRITICAL FIELD:**
anisotropy
Superconducting properties of TaSe₃. (A17). [Data] 481343
temperature dependence
Comments on H/sub c2/ at low temperatures. (A17, B22). 475502
- CRITICAL FLOW:**
Critical flow rate in a single phase flow. Blocking concept. (E11). 491457
Critical flow rate in a two-phase flow without phase change. (E11). 491458
Two-phase flow critical flow rate with change of phase. Calculation of critical flow rates through a breach. (E11). [Data] 491479
- mathematical models**
Review of two-phase steam-water critical flow models with emphasis on thermal nonequilibrium. (C52, E31, E32, E11; BWR; PWR). 466327
- pipes**
The Marviken critical flow test. A description and early results. (E11). 470295
- CRITICAL HEAT FLOW:**
See DEPARTURE NUCLEATE BOILING
- CRITICAL HEAT FLUX:**
Analytical and experimental studies of bubble growth in superheated liquid metals under a uniform magnetic field. (A13, A14, E11). 477955
Critical heat flux experiments with a local hot patch in an internally heated annulus (LWBR development program). (E35). 473976
A generalized correlation of critical heat flux for the forced convection boiling in vertical uniformly heated round tubes. (E11). 463517
- correlations**
Generalized correlations of critical heat flux for the forced convection boiling in vertical uniformly heated annuli. (E11). 473616
- fuel element clusters**
WSC-2: a subchannel dryout correlation for water-cooled clusters over the pressure range 3.4-15.9 MPA (500-2300 PSIA). (E31, E32). [Data] 482735
- jets**
Burnout in a high heat flux boiling system with forced supply of liquid through a plane jet. (E11). 473617
- subcooled boiling**
Study on the thermohydraulic characteristics of marine nuclear reactors, 4. (E38). [Data] 474016
- tubes**
A generalized graphical method for predicting CHF in uniformly heated vertical tubes. (E11). 473622
- two-phase flow**
Heat transfer from cylinders in high speed bubble flow. (E11). [Data] 476895
- CRITICAL MASS:**
fca reactor
FCA assembly V-1 critical experiment. (E21). [Data] 491707
heterogeneous effects
Effect of heterogeneity on critical mass of water reflected PuO₂-H₂O lattices. (E21). 480535
- CRITICAL ORGANS:**
dose commitments
Internal dosimetry program in a plutonium facility. (C21, C54). 473058
personnel dosimetry
The new ICRP concept of person-dose related to the film-badge exposure for some geometries and radiation qualities used in medical X-ray. (C55). [Data] 463451
radiation doses
Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). [Data] 479691
Internal dosimetry program in a plutonium facility. (C21, C54). 473058
- CRITICAL TEMPERATURE:**
(For superconducting transition use TRANSITION TEMPERATURE.)
pomeranchuk particles
Pomeron and critical temperature. (A21). 475614
- CRITICALITY:**
Nuclear criticality experiments from 1943 to 1978. An annotated bibliography: Volume 1, main listing. (E15; Description only). 487873
computer calculations
Development of the criticality capability for the SAM-CE Monte Carlo System. (E31, E32; BWR; PWR). 488042
Role of computers in quality assurance in the LLL Criticality Safety Program. (E15). 470361
manuals
Nuclear safety guide. TID-7016, Revision 2. (E15). 487876
personnel dosimetry
Dosimetry measurements for a criticality exercise based on moderated 2.5 MeV accelerator neutrons. (C55). 482261
radiation accidents
Fourteenth nuclear accident dosimetry intercomparison study: July 13-22, 1977. (C52, C54). 487577
radioactive waste disposal
Criticality in a spent fuel repository in wet crystalline rock. (E52, C52). 480864
- safety**
Role of computers in quality assurance in the LLL Criticality Safety Program. (E15). 470361
- safety standards**
Criticality standard - Minimum critical values. (C52). [Data] 482226
- two-dimensional calculations**
Timing comparison of two-dimensional discrete-ordinates codes for criticality calculations. (E21; Fast reactors). 466589
- CROLOY:**
corrosion
Corrosion of valve metals. (B15). 468991
permeability
Tritium permeation through Fe-2 1/4 Cr-1 Mo steam generator material. (B22, E35). 472673
- CROPS:**
nutrition
The use of isotopes and radiation in research on soil-plant relationships. (C41). 484611
radionuclide kinetics
Transfer coefficients for terrestrial foodchain: their derivation and limitations. (C22, C21). 487316
- CROSS SECTIONS:**
(Whenever appropriate see the more specific descriptors listed below.)
See also DIFFERENTIAL CROSS SECTIONS; GROUP CONSTANTS; INTEGRAL CROSS SECTIONS; TOTAL CROSS SECTIONS
accuracy
Lecture notes on cross-section adjustment procedures. (A34). 490266
comparative evaluations
On the consistency between integral and differential cross section data. (A34, E21). [Data] 483941
computer calculations
Neutron cross section packages of DRP for a few elements. (A31). 481450
computer codes
Program EVALPLOT (Version 79-1): plot data in the Evaluated-Nuclear-Data File/Version B (ENDF/B) format. (A34; In FORTRAN for CDC 7600). [Data] 486361
corrections
Numerical estimates of multiple reaction corrections in neutron cross-section measurements. (A31). 478578
fission products
Fission product group constants for fast reactors. (E21). 482671
heavy ion reactions
Collective effects, statistical effects and fluctuations in a model for complex collisions with many open channels. (A33). 468371
iterative methods
Cross-section adjustment in the analysis of Benchmark experiments. (A31). 475692
least square fit
REFIT: A least square fitting program for resonance analysis of neutron transmission data. (E35, A31, F51). 495010
mass number
Dependence of cross sections of (n,p) and (n,2n) reactions at energies of 14-15 MeV on the parameter (N-Z)/A. (A33). 486206
neutron reactions
A compilation of cross-sections for charged particle production by 14 MeV neutrons for Fe, Co and Ni isotopes. (A34, B11). [Data] 472282
- neutrons**
Neutron cross section packages of DRP for a few elements. (A31). 481450
pulse techniques
Dead time correction of measurements using scaledown units. (E42). 482876
rare gases
Ne, Ar, Kr and Xe noble gas production in the nuclear reactions induced by high energy protons in ²⁷Al to ²³²Th targets. (A34). 483916
rotational states
Molecular beam measurements of inelastic cross sections for transitions between defined rotational states (j,m) of CsF in collisions with He, Ne, Ar, Kr and Xe, CH₄, CF₄, SF₆, C₂H₆, N₂, CO, CO₂, N₂O, CH₃Cl, CH₃Br, CF₃H, and CF₃Br. (A12). 485411
time dependence
Fission product group constants for fast reactors. (E21). 482671
- CROSS-LINKING:**
Photocross-linking analysis of the contact surface of tRNA in complexes with escherichia coli methionine: tRNA ligase. (C11; UV radiation). 472918
chemical radiation effects
A kinetic feature of the radiation-induced crosslinking graft polymerization of various monomers onto polyethylene. (B14). 468985
chemical reaction kinetics
A kinetic feature of the radiation-induced crosslinking graft polymerization of various monomers onto polyethylene. (B14). 468985
- CROSSED FIELDS:**
instability
Observations of the cross-field ion acoustic instability in the asymptotic quasilinear limit. (A14). 492779
ionization
Observations of the cross-field ion acoustic instability in the asymptotic quasilinear limit. (A14). 492779
- CRUCIBLES:**
fabrication
Development of tungsten coatings for the corrosion protection of alumina-based ceramics. (B23). 486946

- magnesium oxides**
Crucible to melt nickel-base super-alloys. (B21). 481775
- melting**
Crucible to melt nickel-base super-alloys. (B21). 481775
- CRUDE OIL:**
See **PETROLEUM**
- CRUSTACEANS:**
See also **PRAWNS**; **SHRIMP**
- biological radiation effects**
Techniques for detecting radiation effects on biochemical and physiological systems in aquatic organisms. (C14). 484527
- contamination**
Plutonium in the Savannah River and marine environs. (B32). 479664
- environment**
Study of the agents and dynamics of coral bioerosion. (B32). 490831
- lethal radiation dose**
Experimental approaches to demonstrate the interactions of radiation with other environmental stresses. (C14). 484509
- neptunium 237**
Uptake from water and tissue distribution of neptunium-237 in crabs, shrimp and mussels. (C21). 461091
- radioactivity**
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September-October 1976. (B31, C22, C21). [Data] 469512
- radionuclide kinetics**
A study of the uptake and toxicity of some stable and radioactive pollutants in marine organisms: antimony, silver, cobalt and strontium in mollusks, crustaceans and teleosts. (C22). 473105
- CRYOGENIC BUBBLE CHAMBERS:**
on-line control systems
Microcomputer-based monitoring and control system. (E41; SLAC cryogenic operations). 492166
specifications
Recent results on the drifting of electrons in liquid argon. (E41). 466797
- CRYOGENIC CABLES:**
See **SUPERCONDUCTING CABLES**
- CRYOGENIC FLUIDS:**
boiling
Boiling in liquid nitrogen and liquid helium. The unstable region. (E11, A17). 491465
fluid flow
Long flexible transfer lines for gaseous and liquid helium. (E12). 491519
heat transfer
Boiling in liquid nitrogen and liquid helium. The unstable region. (E11, A17). 491465
pool boiling
Soviet investigations on pool boiling of cryogenic liquids. (A17, E11). 483609
pumps
Operational experience with double acting piston pumps for cryogenic helium and nitrogen. (E12). 484841
- CRYOGENIC STORAGE DEVICES:**
josephson junctions
Superconductive electronics. The Josephson computer. (E12). 484828
- CRYOGENICS:**
helium dilution refrigeration
Apparatus intended for measuring heat capacity and heat transfer down to mK range. (E12). 473627
Conventional cycle dilution refrigeration down to 2.0 mK. (A17). 462505
japanese organizations
Worldwide cryogenics - Japan. Research and development at the Japanese National Research Institute for Metals. (A17, E12). 475500
research programs
The European Space Agency cryogenic programme and the development of a superfluid helium cryostat for spacelab. (E12). 491493
Worldwide cryogenics - Japan. Research and development at the Japanese National Research Institute for Metals. (A17, E12). 475500
- CRYOGENS:**
See **CRYOGENIC FLUIDS**
- CRYOPUMPS:**
centrifuges
Circulating centrifugal pump for liquid helium. (E12). 491509
degassing
Cryopump measurements relating to safety, pumping speed, and radiation outgassing. (A14). 489176
Radiation-induced degassing of cryopumps. (A14). 459908
hydrogen
12,000 l/sec cryopump for hydrogen gas. (A14). 467679
jet tokamak
Experimental system for studying cryopumping under operating conditions as in large fusion machines. (A14). 478006
performance
Helium pumping at 4.2 K by molecular sieve 5A. (C52, A14). 469910
physical radiation effects
Effects of neutron radiation on 4.2-K cryocondensation panels. (A14). 467522
- CRYOSTATS:**
adiabatic demagnetization
Some remarks on a nuclear demagnetization apparatus to be built in Juelich. (E12). 463522
- blowdown**
Safety aspects of LHE cryostats and LHE transport containers. (E12, C50). 484831
- evaporation**
Application of evaporation cryostats to experiments in solid state physics. (E12). 480362
- fabrication**
Superconductivity in filamentary eutectic composites. Progress report, June 1, 1978 - May 31, 1979. (A17, B22). 478396
- gases**
Cryostat for the measurement of the specific heat of gases adsorbed at low temperature. (A17). 471959
- helium**
Study on the jet pump of liquid helium for circulation cryostats. (E12). 491494
- helium dilution refrigeration**
The new-type Pomeranchuk cooling machine. (E12). 463532
- helium ii**
The European Space Agency cryogenic programme and the development of a superfluid helium cryostat for spacelab. (E12). 491493
- helium 3**
Technical helium-3 cryostats for different capacities. (E12). 491512
- neutron diffractometers**
Thermal unit for a neutron diffractometer. (E42). 477419
- performance testing**
A simple continuous flow cryostat for low temperature experiments in pile. (E36). 477309
Superconductivity in filamentary eutectic composites. Progress report, June 1, 1978 - May 31, 1979. (A17, B22). 478396
- safety engineering**
Safety aspects of LHE cryostats and LHE transport containers. (E12, C50). 484831
- saturne**
Operation of the superconducting solenoid 'SUPER SOLO' and its switch. (E16). 480470
- superconductivity**
Practical cryostats for laboratory courses in superconductivity. (E12). 461502
- supports**
Cryostat cold-finger support for shielded Ge gamma ray detectors. (E41). 474129
- valves**
An emergency cold valve operating in He II. (E12). 491501
- CRYOTRONS:**
(Switching devices based on the magnetic control of superconductivity.)
saturne
Operation of the superconducting solenoid 'SUPER SOLO' and its switch. (E16). 480470
tunnel effect
Static characteristics of tunneling cryotrons with Nb-NbOsub(x)-Pb junctions. (A17). 462499
- CRYPT CELLS:**
fractionated irradiation
Lack of correlation between villus and crypt damage in irradiated mouse intestine. (C14, C63). 490947
survival curves
New derivation, from split-dose data, of the complete survival curve for clonogenic normal cells in vivo. (C14; X rays; gastric and jejunal crypt cells; spermatocytes; bone marrow cells (FU); mice). [Data] 490956
Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction. (C14, C63, C15). 487212
- CRYSTAL COUNTERS:**
diamonds
Electrical properties and performances of natural diamond nuclear radiation detectors. (E41). 470847
performance
Electrical properties and performances of natural diamond nuclear radiation detectors. (E41). 470847
Hole trapping levels in natural diamond nuclear detectors. (E41, A13). 492057
- CRYSTAL DEFECTS:**
See also **COLOR CENTERS**; **DISLOCATIONS**; **E CENTERS**; **F CENTERS**; **FRENKEL DEFECTS**; **INTERSTITIALS**; **POINT DEFECTS**; **V CENTERS**; **VACANCIES**
- acoustic testing**
Estimation of surface-acoustic-wave attenuation due to platelet defects. (E17). 491696
- annealing**
Study on the stage of annealing in the range of 300K in germanium irradiated with fast electrons at 77K. (A13). 474761
- annihilation**
Positron annihilation in laser-irradiated silicon. (A13). 492608
- attenuation**
Estimation of surface-acoustic-wave attenuation due to platelet defects. (E17). 491696
- electron microscopy**
New applications and extensions of the unique advantages of HVEM for physical and materials research. (A13). 474756
- moessbauer effect**
Moessbauer investigation on the interactions between the lattice defects and alloy elements. (A13). 488998
- muon probes**
Positive muons as probes for defects in crystals. (A13). 474885

- physical radiation effects**
Defect dependence of the dielectric permeability of $\text{Qn}(\text{TCNQ})_2$. (B25). 484314
- sputtering**
Investigation of sputter-induced surface phenomena and continuous dynode electron multipliers. (E41, A13). 492099
- x-ray diffraction**
Diamond identification. (B11). 493515
- CRYSTAL DOPING:**
- phosphorus 31**
Impurity doping of silicon by thermal neutron irradiation. (B25). 472762
- Qualitative check of phosphorus distribution in neutron irradiated silicon crystals using autoradiography. (E41). 495128
- spatial distribution**
Qualitative check of phosphorus distribution in neutron irradiated silicon crystals using autoradiography. (E41). 495128
- CRYSTAL FIELD:**
- energy-level transitions**
Crystalline electric field transition in DyD_2 . (A13, B24). 489052
- symmetry groups**
On the interpretation of crystal-field parameters with additive models. (A11). 480991
- CRYSTAL GROWTH:**
Directory of crystal growth and solid state materials production and research. (B20). 472601
- annealing**
Effect of thermal annealing in boron implanted, laser annealed silicon. (B24). 460802
- czochralski method**
Etch pit orientation in Czochralski-grown tellurium crystals. (B21). 462847
- dislocations**
Effect of thermal annealing in boron implanted, laser annealed silicon. (B24). 460802
- tellurium**
Etch pit orientation in Czochralski-grown tellurium crystals. (B21). 462847
- CRYSTAL LATTICES:**
See also **BCC LATTICES**; **BETA-W LATTICES**; **FCC LATTICES**
- adsorption**
Kinetic models for irreversible processes on a lattice. (A17, B22). 486001
- crystal defects**
Contributions to the study of elementary excitations in crystal lattice of real solids. (A13). 459835
- electric conductivity**
Frequency dependence of hopping conductivity. (A13). 485635
- electron diffraction**
Study of surface structure by the low-energy electron diffraction method: achievements and outlooks. (A13). 474851
- grain boundaries**
Diffusion induced grain boundary migration. (A13). 488959
- ion channeling**
Ion channeling studies of hydrogen lattice location. (A32). 475698
- mathematical models**
Kinetic models for irreversible processes on a lattice. (A17, B22). 486001
- neutron diffraction**
Direct analysis of nuclear distributional moments on the basis of neutron diffraction data. (A13). 477946
- physical radiation effects**
Random coalescence of helium vacancies in a lattice. (B25). 472784
- thermodynamic model**
Physical correlation effects in the lattice gas. (A13). 492677
- two-dimensional calculations**
Pulse scattering from two-dimensional crystals. (A32). 462594
- vacancies**
Electronic structure of vacancies and vacancy clusters in simple metals. (A13). 474832
- CRYSTAL MODELS:**
(For theories only.)
See also **HEISENBERG MODEL**; **ISING MODEL**
Spherical solid model for muon and hydrogen in metals. (A13, B22). 462214
- comparative evaluations**
Landau-Ginzburg model for roughening phase transitions. (A13). 464179
- critical temperature**
Multicritical points generated by symmetry breaking of the three-state Potts model. (A13). 464132
- statistical mechanics**
Statistical mechanics of nonlinear lattice dynamic models exhibiting phase transitions. (A11). 477673
- CRYSTAL STRUCTURE:**
See also **BCC LATTICES**; **BETA-W LATTICES**; **COLOR CENTERS**; **CRYSTAL DEFECTS**; **CRYSTAL LATTICES**; **DISLOCATIONS**; **E CENTERS**; **F CENTERS**; **FCC LATTICES**; **FRENKEL DEFECTS**; **GRAIN BOUNDARIES**; **INTERSTITIALS**; **POINT DEFECTS**; **V CENTERS**; **VACANCIES**
Incommensurability in crystal structures. (A13). 459789
- electron channeling**
Crystal diagnostics by electron channeling method. (A13). 492712
- grain boundaries**
Grain boundary structure and properties. (A13). 488944
- magnetization**
Magnetic neutron scattering and the chemical bond. (A13). 471459
- neutron diffraction**
Magnetic neutron scattering and the chemical bond. (A13). 471459
- x-ray diffraction**
X-ray diffraction in real crystals. (A13). 483242
- CRYSTAL-PHASE TRANSFORMATIONS:**
- impurities**
Influence of quenched impurities on first-order phase transitions. (A13). 464175
- magnetic fields**
Permanent magnetic field effect. (B22). 469222
- Pulse magnetic field effect on martensite transformation. (B22). 469219
- Pulsed magnetic field effect on the alloys with isothermal and athermic martensite transformations. (B22). 469220
- phase velocity**
Surface acoustic wave propagation near the spin reorientation phase transition of ErFeO_3 . (A13). 464159
- physical radiation effects**
Irradiation induced precipitation: a thermodynamical approach. (B25). [Data] 494100
- space groups**
Renormalization group theory of structural phase transitions in $\text{A-15: Pm3n-O}^{\text{sub}}(\text{h})$. (A13). 483260
- superconductors**
Superconductivity and structural instability. (A17). 471951
- CRYSTALLINE LENS:**
- biological radiation effects**
Biochemical studies on the ocular lens in relation to cataractogenesis. Final report, July 1, 1968 - December 31, 1978J. (C14; X radiation). 479837
- Radiation protection of the lens for patients and users. (C15, C60, C54). 469708
- cataracts**
Ocular effects of ionising radiation: past and present problems. (C15). 490980
- cell division**
Aqueous humor from traumatized eyes triggers cell division in the epithelia of cultured lenses. (C14). 472976
- delayed radiation effects**
Influence of a prolonged period of low-dosage x-rays on the optic and ultrastructural appearances of cataract of the human lens. (C15). 490994
- fluorescence**
New photo-convertible reactions of blue-fluorescent calf α -crystallin. (C11). [Data] 484443
- proteins**
The development and application of a radioimmunoassay to lens crystallins. (C45). 463350
- Specific radioimmunoassays for human alpha and gamma crystallins. (C45, C62). [Data] 463351
- radiation doses**
Minimum doses of external β -radiation inducing changes in the crystalline lens of rats. (C14). 484523
- X-ray attenuation by prescription lenses. (C15, C60, C54). 469731
- radiation injuries**
Effects of x-irradiation on lens reducing systems. (C14; Rabbits). 472954
- radiation protection**
X-ray attenuation by prescription lenses. (C15, C60, C54). 469731
- radiosensitivity**
Ocular effects of ionising radiation: past and present problems. (C15). 490980
- CRYSTALLIZATION:**
- activation energy**
Quantum theoretical calculations of activation energies for the mass transfer at phase boundaries of ionic crystals. 4. (B12). 468890
- CRYSTALLOGRAPHY:**
- computer calculations**
Computational methodology in crystallography: evaluation and extension. Report of a workshop at Asilomar June 19 - 22, 1978. (B12). 472465
- high pressure**
Neutron scattering at high pressure. (A13). 459787
- CRYSTALS:**
See also **ANHARMONIC CRYSTALS**; **IONIC CRYSTALS**; **LIQUID CRYSTALS**; **MOLECULAR CRYSTALS**; **MONOCRYSTALS**; **POLYCRYSTALS**
- anions**
The CNDO/BW method and the study of AH^- negative ions. (A13). 471490
- atoms**
Elastic and inelastic scattering of neutral atoms by a corrugated hard wall. (A13). 467356
- Theory of the one-phonon scattering of atoms from a hard corrugated surface. (A13). 467365
- band theory**
Single particle Green's functions calculation of the electrical conductivity of strong correlated systems. (A13). 481151
- deuteration**
Host/guest deuteration effects on mixed crystals. (A13). 474747
- electric conductivity**
Single particle Green's functions calculation of the electrical conductivity of strong correlated systems. (A13). 481151
- electron microscopy**
Contrast in transmission electron micrographs of void arrays in crystals. (B25). 481893
- electronegativity**
The CNDO/BW method and the study of AH^- negative ions. (A13). 471490
- electronic structure**
A cluster model for covalent solids. (A13). 471455
- Ground state and elementary excitations of a model valence-

- fluctuation system. (A13; Anderson lattice model Hamiltonian). 485578
- Theoretical interpretation of the infrared spectra of the hydrogen bond. (A12). 464111
- Variational cellular method for crystals. (A13). 471453
- formation free energy
- Formation energy of a macroscopic crystal. (A13). 471550
- moessbauer effect
- The inverse problem of Moessbauer spectroscopy in rf vibrating crystals. (A13). 467476
- neutron transport
- Low temperature and neutron physics studies. Progress report, September, 1977 - April, 1979. (A32, B22). 490035
- nickel chlorides
- Phase transition of the di-hydrated nickel chloride. (A13). 471476
- oscillation modes
- The inverse problem of Moessbauer spectroscopy in rf vibrating crystals. (A13). 467476
- phase transformations
- Considerations about phase transitions in macroscopic crystals. (A13). 471458
- Phase transition of the di-hydrated nickel chloride. (A13). 471476
- physical radiation effects
- Useful damage in physics. (B25). 494102
- positron channeling
- Emission of γ -quanta by channeled particles. (A13). 474926
- quantitative chemical analysis
- The structural and compositional analysis of single crystal surfaces using low energy ion scattering. (B11). 472318
- radiolysis
- Electron tunneling in molecular solids. An orbital overlap model. (B14; Pulsed irradiation). 472504
- spin orientation
- Optical orientation and cooling of a spin system in semiconductors. (A13). 492717
- structural chemical analysis
- The structural and compositional analysis of single crystal surfaces using low energy ion scattering. (B11). 472318
- surfaces
- Elastic and inelastic scattering of neutral atoms by a corrugated hard wall. (A13). 467356
- Theory of the one-phonon scattering of atoms from a hard corrugated surface. (A13). 467365
- suspensions
- Considerations about phase transitions in macroscopic crystals. (A13). 471458
- thermal conductivity
- Scattering of thermal phonons by extended defects in dielectric crystals. (A17). 464730
- variations
- Ground state and elementary excitations of a model valence-fluctuation system. (A13; Anderson lattice model Hamiltonian). 485578
- wigner-seitz method
- Variational cellular method for crystals. (A13). 471453
- CT SCANNING:**
- See CAT SCANNING
- CUBIC LATTICES:**
- See also BCC LATTICES; FCC LATTICES
- CUEX:**
- computer calculations
- AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). [Data] 469787
- CULTIVATION TECHNIQUES:**
- radiosensitivity
- Effect of intercellular contact on the radiation sensitivity of KHT sarcoma cells. (C14, C11). 472957
- Radiation-induced DNA damage in V79 spheroids and monolayers. (C11, C31; γ rays; cultured Chinese hamster (V79) cells). 476502
- CULTURE MEDIA:**
- gamma radiation
- Radiation sterilization of triple sugar iron agar. (C45). 491096
- CULTURES (CELLS):**
- See CELL CULTURES
- CULTURES (TISSUE):**
- See TISSUE CULTURES
- CUMULATIVE EXPOSURE INDEX:**
- See CUEX
- CUMULATIVE RADIATION EFFECTS:**
- mathematical models
- TDF factor and the proportion of surviving cells in fractionated irradiation. (C55). 482269
- time dependence
- Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346
- CURIE POINT:**
- magnetostriction
- Curie temperature and atomic volume effect. (A13). 464151
- CURIE TEMPERATURE:**
- See CURIE POINT
- CURIUM:**
- adsorption
- Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52). 461939
- Studies of actinide sorption on selected geologic materials. (C52). [Data] 480148
- Studies of actinide sorption on selected geologic materials. (E52, B31; Quartz monzonite). [Data] 480898
- chemical properties
- The chemistry of protactinium, neptunium, americium, and curium in the nuclear fuel cycle. (B16, B13). 486814
- chromatography
- Removal of americium and curium from high-level wastes. (E51; DHDECMP; OPIX; Talspeak). 477459
- ion exchange chromatography
- Analytical separation of americium and curium, using high performance liquid chromatography. (B11). [Data] 493478
- radiometric analysis
- Simultaneous determination of americium and curium in soil. (B11). 472351
- retention
- Biogeochemistry of actinides: a nuclear fuel cycle perspective. (C54, C21, B31, B32, C52). 480174
- solvent extraction
- Cleanex process: a versatile solvent extraction process for recovery and purification of lanthanides, americium, and curium. (B16). 476204
- Distribution ratios and empirical equations for the extraction of elements in purex high level waste solution. (B12, B13). [Data] 460532
- Removal of americium and curium from high-level wastes. (E51; DHDECMP; OPIX; Talspeak). 477459
- CURIUM COMPLEXES:**
- chemical preparation
- Synthesis, composition and properties of volatile inner-complex compounds of transuranium elements. (B13). 476120
- separation processes
- Separation of rare earth and transplutonium elements by electromigration method. (B13). 479113
- CURIUM COMPOUNDS:**
- See also CURIUM FLUORIDES
- coprecipitation
- Separation of actinoids by coprecipitation with iron and zirconium hydroxides. (B13). 476127
- oxidation
- Oxidation of microquantities of transplutonium elements up to tetravalent state in phosphoric acid solutions. (B13). 476138
- reduction
- Electrochemical reduction by radiopolarography of some transplutonium aqueous ions. (B13). [Data] 460568
- solvent extraction
- Separation of trivalent actinides from lanthanides by solvent extraction. (B13, B12). [Data] 481704
- CURIUM FLUORIDES:**
- absorption spectra
- Physical-chemical studies of transuranium elements. (B13). 472490
- CURIUM ISOTOPES:**
- See also CURIUM 242; CURIUM 243; CURIUM 244; CURIUM 248
- availability
- Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). 479564
- health hazards
- Actinide elements in aquatic and terrestrial environments. (B31, B32, C21). 479564
- neutron reactions
- Thermal cross sections and resonance integrals of neutron radiation capture by sup(244-248)Cm and ²⁵⁰Cf nuclei. (A34). 465135
- CURIUM 242:**
- biological radiation effects
- Toxicity of inhaled alpha-emitting radionuclides: an experimental approach. (C21; ²³⁹Pu, ²³⁸Pu, ²⁴¹Am, ²⁴⁴Cm, and ²⁴²Cm aerosols). 469777
- maximum permissible concentration
- Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). 474265
- radiometric analysis
- Determination of content of uranium and transuranium element isotopes in spent fuel of WWER-365. (B11, E32). 465254
- CURIUM 242 TARGET:**
- neutron reactions
- Evaluation and testing of actinide cross sections. (A34; Below 10 keV, differential and integral cross sections). [Data] 490126
- Evaluation and testing of actinide cross section data. Final report. Research project number RP707-2. (A34; Summaries of research activities at Savannah River Laboratory). [Data] 465093
- CURIUM 243:**
- blood-plasma clearance
- Biological transport of curium-243 in dairy animals. (C21; Comparison to ²⁴¹Am kinetics in lactating cows and goats). [Data] 479963
- intestinal absorption
- Biological transport of curium-243 in dairy animals. (C21; Comparison to ²⁴¹Am kinetics in lactating cows and goats). [Data] 479963
- retention
- Retention and distribution of ²⁴³ ²⁴⁴Cm in C57BL/Do mice. (C21). 461109
- CURIUM 243 TARGET:**
- calcium 48 reactions
- Estimation of superheavy nucleus production cross sections in total fusion reactions. (A33). 493262
- heavy ion fusion reactions
- Estimation of superheavy nucleus production cross sections in total fusion reactions. (A33). 493262
- CURIUM 244:**
- adsorption
- Interaction of radionuclides with argillite from the Eleana Formation on the Nevada Test Site. (E52, B31). [Data] 492257

- biological radiation effects**
 Toxicity of inhaled alpha-emitting radionuclides: an experimental approach. (C21; ^{239}Pu , ^{238}Pu , ^{241}Am , ^{244}Cm , and ^{242}Cm aerosols). 469777
- lung clearance**
 Inhalation carcinogenesis of high-fired $^{244}\text{CmO}_2$ in rats. (C21). 461105
- maximum permissible concentration**
 Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). 474265
- neutron reactions**
 Curium-244 neutron data evaluation. (A34). [Data] 475792
- polarography**
 Barium and radium radiopolarography. (B13). [Data] 493757
- radiometric analysis**
 Determination of content of uranium and transuranium element isotopes in spent fuel of WWER-365. (B11, E32). 465254
- retention**
 Inhalation carcinogenesis of high-fired $^{244}\text{CmO}_2$ in rats. (C21). 461105
- Retention and distribution of 243 ^{244}Cm in C57BL/Do mice. (C21). 461109**
- volatility**
 Volatility investigations on some transuranium elements from titanium surfaces by thermal desorption. (B13). 486720
- CURIUM 245 TARGET:**
- neutron reactions**
 Dependence of neutron yield on fragment mass for several low-energy fissioning systems. (A33). 486229
- Evaluation and testing of actinide cross sections. (A34; Below 10 keV, differential and integral cross sections). [Data] 490126**
- Evaluation and testing of actinide cross section data. Final report. Research project number RP707-2. (A34; Summaries of research activities at Savannah River Laboratory). [Data] 465093**
- Evaluation of neutron nuclear data for ^{245}Cm . (A34). 468499**
- total cross sections**
 Evaluation of neutron nuclear data for ^{245}Cm . (A34). 468499
- CURIUM 246 TARGET:**
- alpha reactions**
 Proton states in ^{247}Bk excited by $^{246}\text{Cm}(\alpha, t)$ reaction and ^{247}Cf (electron capture) and $^{235}\text{Es}(\alpha)$ decays. (A34). 490115
- CURIUM 248:**
- production**
 Transuranium processing plant report of production, status, and plans for the period January 1, 1978 - September 30, 1978. (D13). 491393
- CURIUM 248 TARGET:**
- calcium 48 reactions**
 Superheavy elements - a crossroads. (A34). [Data] 486314
- heavy ion reactions**
 Induced Coulomb fission. (A33). 472186
- CURRENT ALGEBRA:**
- chiral symmetry**
 Exact finite-energy solutions in nonlinear $\text{SU}(2) \times \text{SU}(2)$ and $\text{SU}(2) \times \text{SU}(1,1)$ chiral theories. (A11). 467139
- su-3 groups**
 Spectrum-generating $\text{SU}(3)$ and local current algebra. (A11). 485325
- CURRENT COMMUTATORS:**
 (For operators in current algebra; in electric circuitry use SWITCHES.)
- light cone**
 0(4) expansion on the light-cone. (A21). 472042
- CURRENT DENSITY:**
- plasma**
 Radial profile of DC toroidal current driven by RF travelling field. (A14). 464312
- tokamak devices**
 Measurement of current profile in a noncircular tokamak TNT. (A14). 464358
- CURRENTS:**
 See also ALGEBRAIC CURRENTS; AXIAL-VECTOR CURRENTS; BEAM CURRENTS; CRITICAL CURRENT; EDDY CURRENTS; ELECTRIC ARCS; ELECTRIC CURRENTS; ELECTROETS; KILO AMP BEAM CURRENTS; MILLI AMP BEAM CURRENTS; NEUTRAL CURRENTS; RING CURRENTS; SECOND-CLASS CURRENTS; WEAK NEUTRAL CURRENTS
- CURRENTS (ALGEBRAIC):**
 See ALGEBRAIC CURRENTS
- CURRENTS (BEAM):**
 See BEAM CURRENTS
- CURRENTS (ELECTRIC):**
 See ELECTRIC CURRENTS
- CURRENTS (NEUTRAL):**
 See NEUTRAL CURRENTS
- CURVES:**
 See DIAGRAMS
- CUSHING SYNDROME:**
- diagnosis**
 Evaluation of steroid laboratory tests and adrenal gland imaging with radiocholesterol in the aetiological diagnosis of Cushing's syndrome. (C62). [Data] 480263
- irradiation**
 Successful treatment of Cushing's disease with o.p - DDD followed by pituitary irradiation in a 19-year-old male patient. (C63). 476815
- radiosensitivity**
 Endocrine factors influencing radiation injury to central nervous tissue. (C15, C63; Incidence of complication following radiotherapy of pituitary adenomas in patients with acromegaly or Cushing's disease). 472991
- radiotherapy**
 Treatment of Cushing's disease with adrenal blocking drugs and megavoltage therapy to the pituitary. (C63). 473521
- CUSP:**
 See CUSPED GEOMETRIES
- CUSPED GEOMETRIES:**
- boundary layers**
 Boundary between a plasma and a field with particle losses. (A14). 483363
- confinement**
 Magneto-electrostatic trap. (A14). 483386
- electron rings**
 Equilibrium properties of finite length E-layers and E-rings in a cusped magnetic field system. (A14). 475137
- fabrication**
 Design, fabrication and test of double cusp fusion machine, RFC-XX. (A14). 464416
- ion rings**
 NRL ion ring program. (A14). 475061
- performance testing**
 Design, fabrication and test of double cusp fusion machine, RFC-XX. (A14). 464416
- reverse-field pinch**
 NRL ion ring program. (A14). 475061
- CUTTING TOOLS:**
- wear**
 Micro-isotope tool wear detector, phase I - Final report. Report for 1 October 1977 - 31 May 1978. (D23). 480327
- CVC THEORY:**
- beta-minus decay**
 Allowed β -transitions, weak magnetism and nuclear structure in light nuclei. (A33). 468274
- beta-plus decay**
 Allowed β -transitions, weak magnetism and nuclear structure in light nuclei. (A33). 468274
- CYANAMIDES:**
- radiolysis**
 Radiation chemistry of aqueous solutions of dicyandiamide. (B14; Gamma radiation or pulsed electron beam). [Data] 468944
- CYANATES:**
 (Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- chemical radiation effects**
 Radiation curable compounds for use in coating compositions. (B14). 493803
- radicals**
 Electron spin resonance of radicals produced by ultra-violet photolysis of KCL doped with potassium cyanide and potassium cyanate. (A13). 471451
- CYANIDES:**
 (Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- absorption spectra**
 Study of the OCN^- and H^- as substitutional ions in NaCN. (A13). 471430
- chemical reaction kinetics**
 Temperature-dependent A factor in thermal unimolecular reactions. (B12). 460464
- electron-molecule collisions**
 Inner shell electron energy loss studies of HCN and C_2N_2 . (A12). 483176
- f centers**
 Measurements of spin-lattice relaxation time of F centers in KCN crystals. (A13). 471514
- hydrogen ions**
 Substitutional HCN^- molecular ions in KCN crystal: a paramagnetic probe in a ferroelastic material. (A13). [Data] 485645
- impurities**
 Analysis of the absorption spectra of the OCN^- and H substitutional impurities in KCN. (A13). 471443
- inner-shell ionization**
 Inner shell electron energy loss studies of HCN and C_2N_2 . (A12). 483176
- isomerization**
 Temperature-dependent A factor in thermal unimolecular reactions. (B12). 460464
- line widths**
 Study of the OCN^- and H^- as substitutional ions in NaCN. (A13). 471430
- phase transformations**
 Phase transitions in KCN. (A13). [Data] 481081
- radicals**
 Electron spin resonance of radicals produced by ultra-violet photolysis of KCL doped with potassium cyanide and potassium cyanate. (A13). 471451
- radiolysis**
 Radiation chemical transformation of CN^- by inner source based on $^{10}\text{B}(n, \alpha)^7\text{Li}$ reaction. (B14). 462788
- structural chemical analysis**
 sigma and pi components of substituent effects in saturated systems. Monosubstituted methanes. (B12). 490421
- CYANOCOBALAMIN:**
 See VITAMIN B-12
- CYANOFERRATES:**
 See FERRICYANIDES
- CYANOGEN:**
- chemical reactions**
 Coordination chemistry study of a nickel surface. The chemistry of

- Ni(III) with triply bonded molecules. (B12). 472432
 cosmic gases
 Laboratory investigation of ion-molecule reactions of HC₃N in dense interstellar clouds. (A15). 471809
 cosmochemistry
 Molecular line studies of dark clouds with associated young stellar objects. (A15). 464632
 Radio observations of interstellar CN toward diffuse clouds, dark clouds, black clouds, and circumstellar clouds. (A15; 113 GHz). 475169
 electron-molecule collisions
 Inner shell electron energy loss studies of HCN and C₃N₂. (A12). 483176
 inner-shell ionization
 Inner shell electron energy loss studies of HCN and C₂N₂. (A12). 483176
- CYANURATES:**
 infrared spectra
 Infrared determination of unsaturated bonds in radiation cross-linked low density polyethylene containing triallylic cyanurate. (B14, A12). 460591
- CYCLES (THERMODYNAMIC):**
 See THERMODYNAMIC CYCLES
- CYCLIC ACCELERATORS:**
 See also more specific entries as listed in the INIS Thesaurus.
 beam dynamics
 Longitudinal coupling impedance of step discontinuities in a circular beam tube. (E16). 476993
 Stochastic cooling theory and devices. (E16). 480520
 beam extraction
 Phase-plane investigation of electron beam dynamics when extracting it from cyclic accelerators on the half-integral resonance. (E16). 470380
 efficiency
 Triatron. (E16). 477014
 electric impedance
 Methods for measuring transverse coupling impedances in circular accelerators. (E16). 470399
 electrons
 Electron accelerators as ionizing radiation sources. (E16). 480518
 rf systems
 Advances in high-power rf amplifiers. (E16). 477072
 superconducting magnets
 Cryogenic problems of synchronous machines having superconducting excitation windings. (E16). 491626
 travelling waves
 Triatron. (E16). 477014
 vacuum systems
 Longitudinal coupling impedance of step discontinuities in a circular beam tube. (E16). 476993
- CYCLIC ADENOSINE MONOPHOSPHATE:**
 See AMP
- CYCLIC ESTERS:**
 See LACTONES
- CYCLOALKANES:**
 See also CYCLOHEXANE
 chemical radiation effects
 Radiation-chemical synthesis of alkyl adamantanes with fluorinated side chain. (B14). 468962
 chemical reaction yield
 Thermolysis of cis- and trans-1,2-dideuteriocyclobutane. (B12). [Data] 472419
 chemical reactions
 Application of multistep deactivation processes in the interpretation of intermolecular energy transfer following chemical activation by kinetic techniques. (B13, B12). [Data] 486696
 Polymer-anchored palladium(II) complexes as catalysts for the conversion of quadricyclane to norbornadiene. (B12). [Data] 486617
 coupling constants
¹³C, ¹H spin-spin coupling constants. Pt. 4. (B12, A13). 486565
¹³C, ¹H-spin-spin coupling constants. Pt. 4. (B12, A13). 493558
 labelling
 Application of multistep deactivation processes in the interpretation of intermolecular energy transfer following chemical activation by kinetic techniques. (B13, B12). [Data] 486696
 Thermolysis of cis- and trans-1,2-dideuteriocyclobutane. (B12). [Data] 472419
 phase transformations
 NMR studies of liquids and disordered solids at high pressure. (B12; Pulsed and high-pressure techniques). 486599
 photochemistry
 Multistep collisional stabilization of chemically activated alkylcyclopropanes. (B12). 472450
 pyrolysis
 Kinetic isotope effect in the thermolysis of methylenecyclobutane. (B12). [Data] 486581
 Thermolysis of cis- and trans-1,2-dideuteriocyclobutane. (B12). [Data] 472419
 radiolysis
 Effect of experimental conditions and molecular structure on the ring decomposition processes of some cycloalkanes. (B14). 472554
 Pulse radiolysis of hydrocarbon glasses at 6 and 77 K. (B14; 35-MeV electrons). 460590
 Rate constants for the scavenging of radicals by iodine. (B10). 472316
 radioprotective substances
 The effect of 1,4-diazabicyclo 2.2.2 octane on the radiosensitivity of bacteria. (C12). [Data] 472929
- reflection**
 Infrared reflectance of irradiated TTF-TCNQ: a comparison of the optical and low frequency transport. (B25). [Data] 462944
 self-diffusion
 NMR studies of liquids and disordered solids at high pressure. (B12; Pulsed and high-pressure techniques). 486599
 trapped electrons
 On electron trapping in crystalline hydrocarbons. (B14). [Data] 479164
- CYCLOALKENES:**
 See also CYCLOPENTADIENE
 chemical reaction yield
 Polymer-anchored palladium(II) complexes as catalysts for the conversion of quadricyclane to norbornadiene. (B12). [Data] 486617
 chemical reactions
 Novel method for the preparation of uranium complexes via electrolytic amalgamation. (B13; Uranium bis(cyclooctetraene), uranium tris(cyclopentadienyl), uranium trifluoro-acetylacetonate). 486697
 electron-molecule collisions
 Electronic spectroscopy of 1,3-cyclopentadiene, 1,3-cyclohexadiene and 1,3-cycloheptadiene by electron impact. (A12). 467201
 Excited electronic states of cyclohexene, 1,4-cyclohexadiene, norbornene, and norbornadiene as studied by electron-impact spectroscopy. (A12). 467200
 enthalpy
 Thermodynamic properties of normal and deuterated cyclopropanes. (B12). 484014
 infrared spectra
 Calculated infrared and Raman spectral of the ¹Ag ground states of rectangular cyclobutadiene and tetrauteriocyclobutadiene. (B12). 486657
 physical radiation effects
 Defect dependence of the dielectric permeability of Qn(TCNQ)_n. (B25). 481889
 polymerization
 Gamma-radiation-induced polymerization of cyclopentene with ring scission. (B14). 479282
 radiolysis
 Effect of pH on oxygen (¹⁸O) atom formation in γ-ray irradiated aqueous solutions. (B14). 468941
 raman spectra
 Calculated infrared and Raman spectral of the ¹Ag ground states of rectangular cyclobutadiene and tetrauteriocyclobutadiene. (B12). 486657
 specific heat
 Thermodynamic properties of normal and deuterated cyclopropanes. (B12). 484014
- CYCLOHEXANE:**
 chemical radiation effects
 Reactivity/rate constant ratio for scavengers of charged particles in nonpolar liquids. (B14). [Data] 486741
 chlorination
 Radiation nitrosochlorination of cyclohexane. (B14). 468966
 electron attachment
 Electron attachment, electron-ion recombination, and energy transfer in nonpolar liquids. (A12). 467211
 energy transfer
 Electron attachment, electron-ion recombination, and energy transfer in nonpolar liquids. (A12). 467211
 radiolysis
 Comparison of radiation chemical and plasma chemical decomposition of hydrocarbons on example of cyclohexane. (B14). 479124
 Formation of aromatic solute excited states in irradiated cyclohexane solutions. (B14). 493796
 Radiolysis of cyclohexane in gaseous phase. Comparison with radiolysis in condensed state. (B14). 479173
 Radiolysis of cyclohexane and its heteroanalog. (B14). 479203
 Rate constants for the scavenging of radicals by iodine. (B10). 472316
 self-diffusion
 NMR studies of liquids and disordered solids at high pressure. (B12; Pulsed and high-pressure techniques). 486599
 trapped electrons
 On electron trapping in crystalline hydrocarbons. (B14). [Data] 479164
 ultralow temperature
 Simple model for hydrogen atom reactions in neopentane-cyclohexane mixtures irradiated at 4.2 K. (B14). 493809
- CYCLOHEXANONE:**
 See KETONES
- CYCLOHEXIMIDE:**
 biosynthesis
 Role of protein synthesis in postirradiation degradation of DNP and DNA in rats thymocytes. (C11). 484445
- CYCLOPENTADIENE:**
 chemical reactions
 Novel method for the preparation of uranium complexes via electrolytic amalgamation. (B13; Uranium bis(cyclooctetraene), uranium tris(cyclopentadienyl), uranium trifluoro-acetylacetonate). 486697
 electron-molecule collisions
 Electronic spectroscopy of 1,3-cyclopentadiene, 1,3-cyclohexadiene and 1,3-cycloheptadiene by electron impact. (A12). 467201
- CYCLOPHOSPHAMIDE:**
 See ENDOXAN

CYCLOTRON INSTABILITY:

- Destruction of cyclotron resonances in weakly collisional, inhomogeneous plasmas. (A14). 485737
- Measurements of the dispersion and temporal growth rate of the current-driven electrostatic ion cyclotron instability with $T_{\text{sub}}(e) \gg T_{\text{sub}}(i)$. (A14). 464276
- beam injection heating**
- Lower hybrid instability driven by oblique ion-beam injection. (A14). 462407
- beta ratio**
- Finite beta effects on the drift-cyclotron instability. (A14). 475022
- computer codes**
- Initial noise and quiet start in electromagnetic particle simulation codes. (A14). 460003
- dispersion relations**
- Electrostatic temperature gradient drift instabilities. (A14). 489164
- electron plasma waves**
- Beam excited ion cyclotron instability and plasma heating. (A14). 471669
- instability growth rates**
- Warm plasma effects on drift cyclotron loss cone mode. (A14). 478138
- ion acoustic waves**
- Beam excited ion cyclotron instability and plasma heating. (A14). 471669
- ionosphere**
- ULF waves in the auroral zone ionosphere and associated electron precipitation variations. (B33, A14). 463020
- klystrons**
- $m = 1$ cyclotron-mode klystron instability. (E16, A14). 491668
- mathematical models**
- Axis encircling ion gyro-radius. (A14). 489128
- nonlinear problems**
- Nonlinear aspects of the electromagnetic ion-cyclotron instability. (A14). 460004
- plasma drift**
- The effect of plasma drift on the electromagnetic cyclotron instability. (A14, B33). 475072
- stability**
- Minimum streaming current requirements for MFTF - revised by recent $(r/\text{sub } p/a/\text{sub } i)$ scaling in 2XII-B. (A14). 471700
- tokamak devices**
- Electrons of high perpendicular energy in the low-density regime of Tokamaks. (A14). 489112
- CYCLOTRON RESONANCE:**
- ion-molecule collisions**
- Study of elastic collision between ion and molecule and development of ion cyclotron resonance technique. (A12). 467220
- line widths**
- Quantum theory of the cyclotron resonance lineshape for a two-dimensional electron-phonon system. (A13). 471529
- magnetic mirror configurations**
- Cyclotron resonance in a magnetic mirror configuration field. (E16). 466551
- plasma**
- Resonance spectroscopy of solids and plasmas. (A13, A14). 483265
- solids**
- Resonance spectroscopy of solids and plasmas. (A13, A14). 483265
- CYCLOTRONS:**
- See also ALICE CYCLOTRON; ISOCHRONOUS CYCLOTRONS; MICROTRONS; ORNL ISOCHRONOUS CYCLOTRON; SEPARATED ORBIT CYCLOTRONS; SIN CYCLOTRON; TRIUMF CYCLOTRON; UCLRL CYCLOTRONS; VARIABLE ENERGY CYCLOTRONS
- Status of the RCNP AVF cyclotron. (E16). 491613
- accelerator facilities**
- Cyclotrons: 1978. (E16). [Data] 477024
- background noise**
- Some methods for decreasing the accidental coincidence phone in correlation experiments on a cyclotron. (E16). 494872
- collective accelerators**
- Simulation of collective ion acceleration in a slow cyclotron beam mode. (E16). 494770
- electronic equipment**
- Electronics. (E41, E16; KVI cyclotron). 492055
- heavy ions**
- Numatron project, high-energy heavy-ion accelerator. (E16). 476999
- ion sources**
- Changes in the energy analyzing system. (E16). 491594
- Electron cyclotron resonance (E.C.R.) multiply charged ion sources. (E16, A14). 494777
- Heavy-ion source power supply. General description. (E16). 491592
- Logic control- and interlock-system. (E42). 492206
- magnetic fields**
- Method of regulating magnetic field of magnetic pole center. (E16). 477085
- Present status and review of 680 cyclotron at Tohoku University. (E16). 491681
- multicharged ions**
- Principle of stationary power accelerator for multicharged ions of medium mass. (E16, A14). 491667
- operation**
- Cyclotron operation. (E16). 491663
- optimization**
- Cyclotron and beam line improvements. (E16). 491662
- penning ion sources**
- A PIG-type heavy ion source and acceleration of heavy ions by the RCNP cyclotron. (E16). 482628
- performance**
- Progress of the single turn extraction program. (E16). 491685

pneumatic controllers

- Control electronics for a fast turning capacitor in the cyclotron frequency control. (E16). 491591
- proton beams**
- Beam burst width and phase drift at the Indiana University Cyclotron Facility. (E16). 491634
- pulse shapers**
- Pulse deflector for experiments with time-delayed particles or γ -rays. (E16). 491564
- specifications**
- Cyclotron design studies for a medical ion accelerator. (E16). 470372
- Cyclotrons: 1978. (E16). [Data] 477024
- time-of-flight method**
- Beam burst width and phase drift at the Indiana University Cyclotron Facility. (E16). 491634
- uses**
- Cyclotron design studies for a medical ion accelerator. (E16). 470372
- CYLINDERS:**
- (Objects of cylindrical shape. For containers see headings such as GAS CYLINDERS.)
- cracks**
- Evaluation of stress intensity factors for internally pressurised cylinders with surface flaws. (E22). 491730
- creep**
- Experimental strength evaluation of cylinders with a flat head subjected to internal pressure at elevated temperature. (E22). 477133
- fracture properties**
- Experimental strength evaluation of cylinders with a flat head subjected to internal pressure at elevated temperature. (E22). 477133
- neutron transport**
- Exponential biasing model for contribution Monte Carlo. (A31, E41). 460252
- Mathematical behavior and computation of transmission probabilities for annular regions. (A31; Application in MC²-2 code). 486161
- Mathematical behavior and computation of transmission probabilities for annular regions. (A31). 460256
- Variational derivation of a contribution Monte Carlo technique. (A31, E41). 460253
- stress analysis**
- The computation of stress intensity factors in cracked thick-walled cylinders and T-junctions using a standard finite element program. (E22). 482698
- Stress analysis for end effects in cylindrical rods by the Lanczos-Chebyshev method. (E13, F51). 484844
- The torsion of a hollow cylinder with an external circular crack. (E22). 473798
- stress intensity factors**
- Evaluation of stress intensity factors for internally pressurised cylinders with surface flaws. (E22). 491730
- thermal stresses**
- Eigenload formulation of thermoelastic stress in cylinders. (E13). 484848
- Transient thermal stresses and displacements in a transversely isotropic, heat-generating circular cylinder. (E11). 491483
- transients**
- Transient thermal stresses and displacements in a transversely isotropic, heat-generating circular cylinder. (E11). 491483
- CYPRUS:**
- hydrology**
- Environmental isotope survey. (B32). [Data] 481948
- CYSTAMINE:**
- erythrocytes**
- Fatty acid level and activity of phospholipases in erythrocytes during radiation sickness of rabbits pretreated with cystamine. (C14). 484532
- radiation protection**
- Changes in the activity of bone and intestinal isoenzymes of serum alkaline phosphatases in irradiated rabbits treated with radioprotective substances. (C14). 469645
- radioprotective substances**
- Analysis of cystamine pre-treatment effects in healthy rats and rats with Ioshido sarcoma. (C14). 466144
- rats**
- SH group concentration in different tissues in rats after radioprotective administration. (C14). 482050
- toxicity**
- Pharmacological modification of cystamine toxicity and antiradiation effects. (C14). 466042
- CYSTAPHOS:**
- radiation protection**
- Potentialities of slowly regenerating tissue protection with the help of radioprotectors. (C14). 479880
- CYSTEAMINE:**
- See MEA
- CYSTEINE:**
- radiolysis**
- Radical pair formation in some amino acids at 77K. (B14). 472531
- CYSTINE:**
- biosynthesis**
- Effect of N:S ratio on the incorporation of ³⁵S into the thioamino acids of the microbial protein in an in vitro rumen system. (C41). 463314
- CYTIDINE:**
- labelling**
- Preparation of tritium-labelled 5-methylcytidine. (B13). 468902

- tritium compounds**
Preparation of some tritium labelled nucleosides by catalyzed exchange in solution. (B13). 462757
Preparation of tritium-labelled 5-methylcytidine. (B13). 468902
- CYTIDYLIC ACID:**
nucleotides
Evaluation of a nuclease-resistant derivative of poly(I) poly(C) [poly(ICLC)] as a radioprotective agent. (C14; Whole-body γ -irradiated mice). 476547
- CYTIDYCHROMES:**
chemical radiation effects
Ultraviolet - induced chemiluminescence of aqueous solutions of haemin, haemoglobin, cytochrome c, peptides and proteins. (C11; Review). 494273
comparative evaluations
Ratio of cytochromes in radiation-induced leukemia cells of mice. (C14; x-ray). 461044
- CYTOLOGICAL TECHNIQUES:**
New trends and techniques in chromosome aberration analysis. (C15). 461064
- CYTOLOGY:**
gamma radiation
Effects of gamma irradiation on the cytology of the mesenteron of chilo suppressalis walker. (C11). [Data] 469597
research programs
Repair and cell cycle response in cells exposed to environmental biohazards. Progress report, June 1, 1978 - May 31, 1979. (C12). 490938
- CYTOPLASM:**
biological radiation effects
Cytological changes in the estimation of therapeutic effectiveness and prognosis in lung cancer cases. (C63). 470193
Nature of transforming deoxyribonucleic acid in calcium-treated *Escherichia coli*. (C12). 487198
photochemistry
Corticosteroid (methylprednisolone) modulation of photoperoxidation by ultraviolet light in liposomes. (C11). 484463
radiation injuries
Ultrastructural stereology of x-irradiated epidermis. (C14; Rats). 472948
radiosensitivity
Effect of host lex, recA, recF, and uvrD genotypes on the ultraviolet light-protecting and related properties of plasmid R46 in *Escherichia coli*. (C12). 472936
- CYTOSINE:**
binding energy
Charge-migration phenomena in γ -irradiated costacking complexes of DNA nucleotides. II. An ESR study of various complexes in frozen solution. (C11, B14). [Data] 479748
radiolysis
ESR study of the ionic radical species in an irradiated single crystal of isocytosine. (B14). 490479
solvated electrons
The reaction of solvated electrons with cytosine, 5-methyl cytosine and 2'-deoxycytidine in aqueous solution. The reaction of the electron adduct intermediates with water, p-nitroacetophenone and oxygen. (C11). 490915
- CYTOSTATICS:**
See **ANTIMITOTIC DRUGS**
- CZECH WWR-S REACTOR:**
See **WWR-S-PRAGUE REACTOR**
- CZECHOSLOVAK ORGANIZATIONS:**
See also **UVJ; UVVR**
buildings
Construction of a new building of the Institute for the Research, Production and Application of Radioisotopes in Prague 10 - Hostivar. (F61). 462057
- CZECHOSLOVAK TR-0 REACTOR:**
See **TR-0 REACTOR**
- CZECHOSLOVAKIA:**
human populations
INAA study on trace elements in hair of three selected population groups in Czechoslovakia. (B11). 472375
sulfates
Oxygen isotopic composition of sulphates from some mineral waters and mine waters in western Bohemia. (B32). [Data] 460897
- D CODES:**
corrections
Analysis of some seven rod clusters of metallic uranium using the computer code DUMLAC. (E21). 480533
errors
Analysis of some seven rod clusters of metallic uranium using the computer code DUMLAC. (E21). 480533
manuals
The neutron transport code DTF-TRACA. User's manual and input data. (E21). 482656
neutron transport theory
The neutron transport code DTF-TRACA. User's manual and input data. (E21). 482656
pion reactions
A new version of DWPI (inelastic pion-nucleus scattering) to incorporate microscopic form factors and differing proton and neutron radii. (A33, F51). 483752
- D PLUS RESONANCES:**
weak hadronic decay
Enhanced and suppressed two-and three-body nonleptonic decays of charmed mesons. (A21). 493067
- D REGION:**
absorption
The winter anomaly in radio-wave absorption. (B33). [Data] 484431
- chemical reaction kinetics**
Problems in the chemistry of metallic species in the D and E regions. (B33). [Data] 465847
- electric currents**
A two-layer model for the geomagnetic crochet. (B33). [Data] 463022
- electron density**
A comparison of low- and mid-latitude D region electron densities derived from ground-based radio data. (B33). [Data] 463014
Electron density irregularities in the D region generated through neutral turbulence. (B33). 460937
Ionospheric D-region profile data base. A collection of computer-accessible experimental profiles of the D and lower E regions. (B33). [Data] 490871
Recent advances in the study of the D-region winter anomaly. (B33). 494240
- radiowave radiation**
Angular and temporal characteristics of partial reflections from the D - region of the ionosphere. (B33). 490857
- D RESONANCES:**
See also **D PLUS RESONANCES; D ZERO RESONANCES; D-1865 RESONANCES; D-2007 RESONANCES**
decay
Is the 20-dominance model valid in charm decays, too. (A21, A11). 486063
Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). 471972
electroproduction
Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). 471972
hadronic particle decay
Charmed meson production by e^+e^- annihilation. (A22; Angular distribution, branching ratio). 468213
 e^+e^- annihilation. (A22; Review). 460229
Lecture IV. Experimental status of charm. (A21; Lectures, review). 475515
Recent results from neutrino interactions in heavy neon. (A22). 468158
Weak decays of new particles. (A21). 468065
leptonic decay
Electrons and kaons in charmed particle decays. (A22; Branching ratio, 3.9 to 7.4 GeV/c). [Data] 486136
Weak decays of new particles. (A21). 468065
mass
Charmed meson production by e^+e^- annihilation. (A22; Angular distribution, branching ratio). 468213
pair production
Meson-resonance production in p-p interactions at 53-GeV (c.m.) energy. (A22). 468166
particle decay
Observation of charmed D meson production in pp collisions. (A22). 468179
particle production
Evidence for prompt single muon production in 400 GeV proton interactions. (A22). 489917
Inclusive production of D mesons in e^+e^- annihilation. (A21). 493064
Observation of charmed D meson production in pp collisions. (A22). 468179
Study of charm production through $e\mu$ and eK correlations. (A21). 464769
[Data] 464769
particle properties
Lecture IV. Experimental status of charm. (A21; Lectures, review). 475515
[Data] 475515
particle widths
Charmed meson production by e^+e^- annihilation. (A22; Angular distribution, branching ratio). 468213
reviews
Prospects for hadronic production of charmed particles at the AGS. (A22). 464895
semileptonic decay
Charm and tau measurements from Delco. (A22). 468192
Electrons and kaons in charmed particle decays. (A22; Branching ratio, 3.9 to 7.4 GeV/c). [Data] 486136
Evidence for prompt single muon production in 400 GeV proton interactions. (A22). 489917
General analysis of $D \rightarrow K\pi\gamma$ physics. (A21). 483651
Lecture IV. Experimental status of charm. (A21; Lectures, review). 475515
[Data] 475515
Proposal to measure the D-meson decay constant $F/\text{sub } D/$. (A21). 489766
Search for charmed particle production in proton-proton collisions at the CERN-ISR. (A22; 53 GeV cms, e/π ratio). 478556
Search for semileptonic decays of photoproduced charmed mesons. (A22; 100 to 300 GeV). [Data] 478539
Study of charm production through $e\mu$ and eK correlations. (A21). 464769
[Data] 464769
Weak decays of new particles. (A21). 468065
weak hadronic decay
Pole-dominance model for nonleptonic charm decays. (A21, A11). 486097
- D STATES:**
spectroscopy
Production and analysis of some atomic emission spectra in the vacuum ultraviolet. (A12, E42). 483198
- D ZERO RESONANCES:**
hadronic particle decay
The color-radius interactions, $\text{GAMMA}(D^0 \rightarrow K^+K^-)/\text{GAMMA}(D^0 \rightarrow \pi^+\pi^-)$ and violations of the $\Delta I = 1/2$ rule. (A21). 489790

- particle decay**
Strong $D^0 \rightarrow K^-\rho^0$ signal and implications for a (anti cs)sub(R) current. (A21). 478397
- weak hadronic decay**
Enhanced and suppressed two-and three-body nonleptonic decays of charmed mesons. (A21). 493067
- D*EFFECT:**
See *D*RESONANCES*
- D*PHENOMENON:**
See *D*RESONANCES*
- D*RESONANCES:**
- mass**
A QCD relation between electromagnetic mass differences of charmed meson and strange baryons. (A21). 475546
- D-T REACTORS:**
See also *REFERENCE THETA PINCH REACTOR*
- cryopumps**
Helium pumping at 4.2 K by molecular sieve 5A. (C52, A14). 469910
- fuel pellets**
Advanced-fuel pellet approaches to inertial fusion. (A14). 489134
- magnetic mirrors**
Tandem mirror reactors. (A14). [Data] 483368
- radioactive wastes**
Fusion fuel cycle solid radioactive wastes. (E50). 474171
- reactor fueling**
How to shoot with snowflakes. (A14). 481208
- D-1285 RESONANCES:**
- particle decay**
Production and decay properties of the D(1285) meson in K \bar{p} interactions at 4.2 GeV/c. (A22). 483696
- particle production**
Evidence for axial-vector and pseudoscalar resonances near 1.275 GeV in $e^+e^- \pi^+ \pi^-$. (A22). [Data] 464913
- particle widths**
Evidence for axial-vector and pseudoscalar resonances near 1.275 GeV in $e^+e^- \pi^+ \pi^-$. (A22). [Data] 464913
- D-1865 RESONANCES:**
- hadronic particle decay**
D meson production in e^+e^- annihilation. (A22; 3.7 to 7.0 GeV, total cross section, branching ratio). [Data] 493111
- Recent results from neutrino interactions in heavy neon. (A22; Decay rate). 460235
- Recent results from the FNAL 15 foot bubble chamber. (A22). 460239
- mass**
D meson production in e^+e^- annihilation. (A22; 3.7 to 7.0 GeV, total cross section, branching ratio). [Data] 493111
- particle production**
Recent results from the lead-glass-wall experiment. (A22; Review). [Data] 489916
- semileptonic decay**
Recent results from the lead-glass-wall experiment. (A22; Review). [Data] 489916
- D-2007 RESONANCES:**
- particle production**
Charm particle production by neutrinos. (A22). [Data] 478566
- DACUS:**
See also *DACUS OLEAE*
- DACUS OLEAE:**
- nutrients**
Inorganic nutrients in natural and artificial food of Dacus oleae larvae (Diptera: Tephritidae). (B11). [Data] 493517
- DAILY VARIATIONS:**
(Includes day-to-day, diurnal, and semidiurnal variations.)
- melatonin**
Radioimmunoassayable melatonin in various species. (C45). [Data] 463332
- DAMAGE (RADIATION, BIOLOGICAL):**
See *RADIATION INJURIES*
- DAMAGE (RADIATION, CHEMICAL):**
See *RADIOLYSIS*
- DAMAGE (RADIATION, PHYSICAL):**
See *PHYSICAL RADIATION EFFECTS*
- DAMAGING NEUTRON FLUENCE:**
- mathematical models**
Effect of neutron spectrum on radiation damage. (B25). [Data] 484304
- DAMPING:**
See also *LANDAU DAMPING*
- DAMS:**
- leaks**
Isotope investigation of water losses from the Las Lajas dam, Chihuahua, Mexico. (B32). [Data] 460876
- DANISH ORGANIZATIONS:**
See also *RISØE NATIONAL LABORATORY; RISØE RESEARCH ESTABLISHMENT*
- data acquisition systems**
Niels Bohr Institute on line data acquisition system. (E42, A30, F50). 488301
- DARK REPAIR:**
See *BIOLOGICAL REPAIR*
- DATA:**
(For data flagging always use a more specific term.)
- computer calculations**
Pre-analysis assessment of creep-rupture data. (B22). 493937
- information retrieval**
Experiment in data tagging in information-accessing services containing energy-related data. Final report 1975-78. (F30). 492305
- mathematical models**
Review of advanced methods for data adjustments. (F51, A34). 485241
- DATA ACQUISITION:**
- optimization**
Optimal allocation of sensors for state estimation of distributed parameter systems. (E24). 491808
- t codes**
"TEKDA" - complex for storage, editing and usage of data bank on the BESM-6 computer. (F51). 492346
- telemetry**
Computer generated movies to display biotelemetry data. (B31, C52, F30; Habitat studies of elk in New Mexico). 490819
- DATA ACQUISITION SYSTEMS:**
(Systems for converting data to machine readable form and gathering it into a computer store.)
- Data acquisition system for the Hamilton Standard W2 Electron Beam Welder.** (E13). 491533
- Fast event recorder utilizing a CCD analog shift register.** (E16). 466530
- The FAST-DATA System: Fully Automatic Stochastic Technology for Data Acquisition, Transmission, and Analysis.** (E24). 477152
- Multi-processor auxiliary crate controller for front-end data processing in CAMAC.** (E42). 471005
- Storms over the METER-ORNL Precipitation Network: the first six months.** (C52; Georgia). [Data] 487535
- beam transport**
Computer control of 500 MeV beam transport line at KEK. (I). (E16). 491611
- computer codes**
Flexible real-time nuclear data acquisition processing software. (F51). 471185
- computer networks**
KEKNET, a high speed on-line network for high energy physics. (E41). 470819
- On-line system for multi-parameter data analysis.** (F51). 492363
- computers**
A high-speed, economical minicomputer. (F31). 471144
- data transmission**
Notes on the fast bus system. (E16, F50). 487918
- diagnosis**
Acquisition and processing of multiple functional investigations in cardiology. (C31). 473112
- equipment interfaces**
High speed CAMAC differential branch highway driver. (E42, E13, E16). 492208
- Parallel preprocessing in a nuclear data acquisition system.** (E42). 471011
- floating spot digitizers**
Computer links and test of a hardware processor for point-to-line data reduction. (E41). 474028
- gamma spectrometers**
Economic automatized system for spatial and energy data reading from a gamma spectrometer on optical gas-discharged chambers. (E41). 492172
- gamma spectroscopy**
Automated complex for information retrieval and processing in the gamma-resonance spectrometry. (E41, F51). 477325
- irradiation capsules**
Innovations on the workplace of the irradiation experiments group. (F61). 482966
- laser implosions**
Automation of experimental investigations of laser thermonuclear synthesis. (F51, A14). 492369
- logic circuits**
Event Handler II: a fast, programmable, CAMAC-coupled data acquisition interface. (E16, E42). 491609
- memory devices**
Characterization of charge-coupled analog memories for nuclear data acquisition. (E41). 482871
- multi-parameter analysis**
Multidetector system for correlation spectrometry. (E42). 495162
- On-line system for multi-parameter data analysis.** (F51). 492363
- neutron spectrometers**
Multidetector system for correlation spectrometry. (E42). 495162
- on-line systems**
Flexible real-time nuclear data acquisition processing software. (F51). 471185
- planning**
Panel on the impact of changing computer technology on nuclear and particle physics. (E41, E42, E16). 492151
- Real-time ISEE data system.** (B33, E42). 494248
- programming**
Computer system cross-fertilization: making your TI 980 play your TMS 9900. (F50, B11). 474385
- Data display with the Q system.** (E16, E42). 491652
- radiation detectors**
System for data transmission and control by electronics of the "MARK" experimental physical installation. (E41). 492184
- research programs**
Instrumentation and Controls Division biennial progress report, September 1, 1976 - September 1, 1978. (E41). 470948
- specifications**
"FASTBUS" - status of development of a standard high speed data acquisition bus for high energy physics. (E42; DOE). 471003
- Flight Path Recovery System (FPRS) design study.** (B31). 469525
- GA TNS Project. Volume III. Diagnostics, instrumentation, and control. Status report for FY-78, October 1, 1977 - September 30, 1978.** (A14). 464314
- Niels Bohr Institute on line data acquisition system.** (E42, A30, F50). 488301

- F50). 488301
- spectra unfolding**
- Electronic equipment for spectrometric data processing. (F51). 492335
- On-line nuclear data measurement and processing system on the base of CAMAC units. (F51). 492367
- Spectrometric data acquisition and processing system on the TPA-10001/1 mini-computer base. (F51, E42). 492368
- trigger circuits**
- Data handling for the wide-angle hall jet experiment. (E41, E16). 466766
- Report of the subgroup on fast processing. (E16, E41). 494780
- DATA COMPILATION:**
- See **DATA ACQUISITION**
- DATA DISPLAY DEVICES:**
- See **DISPLAY DEVICES**
- DATA DISPLAY SYSTEMS:**
- See **DISPLAY DEVICES**
- DATA PROCESSING:**
- (Manipulation of unit facts.)
- See also **SPECTRA UNFOLDING**
- algorithms**
- On an algorithm of data compression under filmless pickup of data from streamer chambers. (F51). 492365
- automation**
- Contribution of computer science to the evaluation of experimental data. (F31, F51). 471148
- beam dynamics**
- Software of a numerical calculation result processing system on basis of the NAIRI-2 computer. (F51). 492333
- computer codes**
- Data processing in an experiment on π^0 meson photoproduction by polarized γ -quanta. (F51, E41). 492339
- Flexible real-time nuclear data acquisition processing software. (F51). 471185
- Software of structure experiments in a neutron time-of-flight diffractometer. (F51). 492342
- computer networks**
- KEKNET, a high speed on-line network for high energy physics. (E41). 470819
- computer-graphics devices**
- Computer generated movies to display biotelemetry data. (B31, C52, F30; Habitat studies of elk in New Mexico). 490819
- computers**
- A high-speed, economical minicomputer. (F31). 471144
- Neoplasm diagnosis using liver scintigram computer processing. (C62). 494549
- cross sections**
- The application of a number-oriented microprocessor to real-time data processing. (E41). 485041
- h codes**
- Introduction results of the "HIDRA" system elements in the CDC-6500 computer in JINR. (F51, E41). 492345
- image processing**
- Digital, realizable Wiener filtering in two-dimensions. (F50). 495265
- information systems**
- Computer-aided software development. (F31). 462028
- maximum-likelihood fit**
- Varied applications of a new maximum-likelihood code with complete covariance capability. (A30, E21; FERRET, for data adjustment). 460247
- moessbauer spectrometers**
- A computerized system for Moessbauer spectroscopy. (E42). 492195
- multiwire proportional chamber**
- Software of data processing from the 2500-channel spectrometer with proportional chambers. (F51). 492359
- neutron diffractometers**
- Software of structure experiments in a neutron time-of-flight diffractometer. (F51). 492342
- nuclear medicine**
- Installation of a small computer for central EDV support of a radiologic clinic. (C60, F51). 466372
- on-line systems**
- Flexible real-time nuclear data acquisition processing software. (F51). 471185
- Specialized, multi-user computer facility for the high-speed, interactive processing of experimental data. (F50, A22, A30). 488507
- plotters**
- POL: an interactive system to analyze large data sets. (F31). 462024
- radioimmunoassay**
- The computation of results from radioimmunoassays. (C62). 491322
- radiology**
- Installation of a small computer for central EDV support of a radiologic clinic. (C60, F51). 466372
- recommendations**
- Information management problems relating to numeric data base services for DOE. QEI report 9413 (Interim report for Phase II of QEI project 4191). (F30). 492304
- s codes**
- Software for obtaining physical information from energy and angular distributions of nuclear reactions on 14 MeV neutrons. (F51). 495269
- spiral reader digitizers**
- Comparison technique of results of two pronged event measurements on spiral meter in α -p experiments. (E41). 492041
- systems analysis**
- Implementation plan for automatic data processing equipment as part of the DYMAC advanced accountability system. Addendum 3 to applications of advanced accountability concepts in mixed oxide fabrication. (F41). 477539
- two-dimensional calculations**
- Digital, realizable Wiener filtering in two-dimensions. (F50). 495265
- DATA STORAGE DEVICES:**
- See **MEMORY DEVICES**
- DATA TRANSMISSION:**
- See also **TELEMETRY**
- Data transmission between instruments and instrument connection to computer. (E42). 477440
- computer networks**
- Communication systems. (F31). 462026
- neutrino beams**
- Telecommunication by high-energy neutrino beams. (E41, A21). 492118
- on-line systems**
- Data transfer in on-line systems. (F31). 462029
- DATING:**
- See **AGE ESTIMATION**
- DAUGHTER PRODUCTS:**
- environment**
- Migration of radionuclide chains in groundwater. (B32, E52, A34). 460895
- environmental exposure pathway**
- Food chain transport of ^{210}Pb resulting from uranium milling activities. (C22, C21, C52). 473109
- inhalation**
- Progress report on the Grand Junction uranium mill tailings remedial action program. (C21, C52, C54; Program to reduce humane exposure from buildings involving the use of mill tailings in their construction). 469742
- radiation monitoring**
- Effects of home ventilation systems on indoor radon-radon daughter levels. Final report. (B33; Comparison of air and timers, central blowers, and outside air ventilation on radioactivity levels in room air). 476497
- troposphere**
- On the value of flow of long-lived radon-222 decay products into atmosphere with the dust of natural and anthropogenic origin. (B33). 479729
- DAVIS BESSE-1 REACTOR:**
- personnel**
- Instrument and control technician training for the Davis-Besse Nuclear Power Station. (E32). 491880
- Multi-image screening technique applied to a general orientation training program. (E32). 491895
- DAVIS BESSE-2 REACTOR:**
- personnel**
- Instrument and control technician training for the Davis-Besse Nuclear Power Station. (E32). 491880
- Multi-image screening technique applied to a general orientation training program. (E32). 491895
- DAVIS BESSE-3 REACTOR:**
- personnel**
- Instrument and control technician training for the Davis-Besse Nuclear Power Station. (E32). 491880
- Multi-image screening technique applied to a general orientation training program. (E32). 491895
- DAYGLOW:**
- See **AIRGLOW**
- DAYS LIVING RADIOISOTOPES:**
- See also more specific entries as listed in the *INIS Thesaurus*.
- DC AMPLIFIERS:**
- electrometers**
- Ionization current measurement. (E41). 477368
- electronic circuits**
- Low-noise audio amplifiers and preamplifier for use with intrinsic thermocouples. (E42). 488299
- ionization chambers**
- Electrometric amplifiers designed for direct ionization current amplification. (E41). 477371
- DC TO AC INVERTERS:**
- See **INVERTERS**
- DDT:**
- biological effects**
- Changes in mammalian sperm morphology after x-ray and chemical exposures. (C14; Mice). 494307
- DE SITTER GROUP:**
- nonlinear problems**
- Nonlinear de Sitter symmetry and restricted space-time regions in gravity and supergravity. (A11). 492389
- DE-EXCITATION:**
- See also **RADIATIONLESS DECAY**
- chemical reaction kinetics**
- Pulse radiolysis studies of some atomic and molecular processes in the gas phase. (A12). 467212
- DEATH:**
- brain**
- Nuclear medicine: confirmation of cerebral death. (C62; use of technetium-99m in scintiscanning). 461399
- DEBRIS (NUCLEAR):**
- See **FISSION PRODUCTS**
- DECALSO:**
- See **ION EXCHANGE MATERIALS**
- DECANTATION:**
- tracer techniques**
- Application of radionuclides in water management. I. (D24). 476878
- DECAY:**
- (For nuclear or particle decay only. For chemical or biological decay, see **DECOMPOSITION**.)
- See also **ALPHA DECAY; BETA DECAY; BETA-MINUS DECAY; BETA-**

- PLUS DECAY; ELECTROMAGNETIC PARTICLE DECAY; ELECTRON CAPTURE DECAY; GAMMA DECAY; HADRONIC PARTICLE DECAY; INTERNAL CONVERSION; K CONVERSION; L CONVERSION; LEPTONIC DECAY; PARTICLE DECAY; SEMILEPTONIC DECAY; SPONTANEOUS FISSION; WEAK HADRONIC DECAY; WEAK PARTICLE DECAY*
- argon**
Luminescence decay in condensed argon under high energy excitation. (A32). 481455
- iron 55**
The accurate measurement of the disintegration rate of ⁵⁵Fe using an internal liquid scintillation counter. (A34). [Data] 483848
- uranium**
Principles of radon emanometry. (B31). [Data] 469498
- DECAY AMPLITUDES:**
- electronic structure**
Application of the 'Electronic Bridge' theory to some highly converted nuclear transitions. (A33). 481492
- eta mesons**
Axial-vector current anomaly, decay constants, and eta-eta'-eta sub(c) problem in an N-flavour quark model. (A21). [Data] 481399
- hyperons**
Quark-diquark model and nonleptonic decays of hyperons and charmed baryons. (A21). 489809
- mesons**
Quark-diquark model and nonleptonic decays of hyperons and charmed baryons. (A21). 489809
- sum rules**
Comprehensive sum rules for S-wave amplitudes of nonleptonic hyperon decays. (A21). 483652
- DECAY HEAT:**
See AFTER-HEAT
- DECAY INSTABILITY:**
Studies of parametric decay instabilities in magneto plasma. (A14). 459929
- algorithms**
Automated calculation of parametric instabilities in fluid plasmas. (A14). 489318
- crossed fields**
Temporal instability in crossed electric and magnetic fields. (A13). 464163
- plasmons**
Two-plasmon decay and profile modification produced by 10.6-μm radiation at quarter-critical density. (A14). 467501
- DECAY PRODUCTS:**
See DAUGHTER PRODUCTS
- DECELERATION:**
See ACCELERATION
- DECHANNELING:**
See CHANNELING
- DECIDUOUS TREES:**
See TREES
- DECLADDING:**
See also CHEMICAL DECLADDING
- coated fuel particles**
Feasibility study for removal of SiC coating in HTGR-type fuel by F₂-fluorination. (B16, E33). 472585
- DECOMMISSIONING:**
See also REACTOR DECOMMISSIONING
Decommissioning of nuclear facilities. An annotated bibliography. Final report Oct 1977 - Aug 1978. (C52, C54). 466310
- cost**
Technology, safety and costs of decommissioning a reference small mixed oxide fuel fabrication plant. Volume 1. Main report. (E50). 471032
- meetings**
International symposium of the IAEA/NEA on the decommissioning of nuclear facilities. (F61, C54). 466988
- planning**
Decommissioning and decontamination planning for Hanford nuclear facilities using multiattributed decision analysis. (E22, C52, B13). 470536
- safety**
Technology, safety and costs of decommissioning a reference small mixed oxide fuel fabrication plant. Volume 1. Main report. (E50). 471032
- DECOMPOSITION:**
See also CALCINATION; HEMOLYSIS; PHOTOLYSIS; PYROLYSIS; RADIOLYSIS
- DECONTAMINATION:**
Systems approach to decontamination of nuclear power plants. (E31, E32). 473854
- beagles**
Zn-DTPA administered by slow-release implant. (C21, C31). [Data] 461085
- candu type reactors**
Some aspects of primary and secondary water chemistry in CANDU reactors. (E34). 491950
- chelating agents**
Removal of ²³⁹Pu, internally deposited in mice, by means of diethylenetriaminepentaacetate phosphonates. (C21). 463246
- The work at NRPB on development of new chelating agents. (C21). 491013
- chemical reaction kinetics**
Effect of carrier on surface decontamination efficiency. (B12, C54). 478884
- comparative evaluations**
Testing selected disinfectants for decontaminating effectiveness in skin contamination with ⁹⁰Sr, ¹³¹I, ¹³⁷Cs or ¹⁴⁴Ce. (C21). 466209
- dragon reactor**
Contamination and decontamination of Incoloy 800 samples from the KFA experimental duct of the DRAGON reactor. (B22, C54). 469285
- Mechanical properties of Incoloy 800 from the KFA experimental duct at 700°C and 480 d in the DRAGON reactor, before and after decontamination. (B22, C54). 469312
- edta efficiency**
Influence of iron cations on EDTA effectiveness. (C21). 466227
- Technique of measuring deactivation efficiency of water treatment equipment in nuclear power facilities by gamma spectrometric analysis. (E41). 485031
- eurochemic**
Activity report 1978. (B16, F62). 493849
- first aid**
Manual on early medical treatment of possible radiation injury with an appendix on sodium burns. (C21). 491024
- hydroxamic acids**
Biokinetics of hydroxamic acid complexes. (C21). 466217
- i codes**
A user's guide to the programs ITRAP-A, ITRAP-B, ITRAP-S and ITRAP-L. (C52). 494418
- in vivo**
Treatment of incorporated transuranium elements. (C21). 491050
- irradiation**
Radiation effects on foaming properties of sewage waters containing domestic synthetic washing agents. (C54). 466356
- manuals**
ICPP decontamination manual. (B13, B16). 460552
- mercury 203**
Effectiveness of DTPA salts and ferrocyanides in removing mercury from muscle tissue and internal organs of animals. (C21). 466210
- organic solvents**
Development of organic solvent-based liquid dispersions for deactivation of nuclear power plant circuits. Corrosion losses of steam generator pipes of the A-1 power plant in trichloroethylene and water deactivation solutions. (E34). 477266
- pinex**
Pine needle activity and the washing effect as a measure of fallout. (B31). 465797
- planning**
Decommissioning and decontamination planning for Hanford nuclear facilities using multiattributed decision analysis. (E22, C52, B13). 470536
- plutonium 239**
Testing polyamine-polyphosphonic compounds for effectiveness in removing plutonium and uranium from the body of mice and rats. (C21). 466224
- quantity ratio**
Optimizing the concentrations of decontaminating components allowing for subsequent liquid waste cleaning by natural clinoptilolites. (C54). 466355
- surface contamination**
Chemical surface decontamination. (C54). 482254
- surfaces**
Decontamination agent for metallic surfaces and method of decontamination using this agent. (C54). 473290
- Manual on decontamination of surfaces. (C54). 484687
- Surface decontamination. (C54). 482253
- uranium**
Testing polyamine-polyphosphonic compounds for effectiveness in removing plutonium and uranium from the body of mice and rats. (C21). 466224
- yttrium 91**
Chelate effectiveness in mobilizing hepatic yttrium. (C21). 463221
- DEDTC:**
- radiosensitivity**
Diethyldithiocarbamate enhancement of radiation and hyperthermic effects on Chinese hamster cells in vitro. (C11; By inhibition of superoxide dismutase activity thus enhancing superoxide radical toxicity in the cells). 479759
- DEEP INELASTIC HEAVY ION COLLISIONS:**
See QUASI-FISSION
- DEEP INELASTIC HEAVY ION REACTION:**
Characteristic time scales in deep inelastic heavy ion collisions. (A33). 483762
- Deep inelastic reactions with heavy ions. A probe for nuclear macrophysics studies. (A34). 460345
- angular momentum transfer**
Angular momentum transfer in deep inelastic collisions for the Ar+Au and Cu+Au systems. (A34). 475809
- argon 40 reactions**
Complete fusion and transfer reactions induced by 273 MeV ⁴⁰Ar on ¹³⁷Tb. (A34). 472234
- atomic number**
Charge equilibration in deep inelastic reactions. (A33). 483794
- collective model**
Deep inelastic reactions: A probe for large scale collective motion studies. (A34). 490213
- Time-dependent Hartree-Fock and elementary modes of excitation description of deep inelastic processes in the reaction ²⁰⁸Pb + ²⁰⁸Pb - a comparison. (A33). 490050
- fokker-planck equation**
Angular-momentum transport in heavy-ion collisions. (A33). 468432
- friction**
The nuclear friction problem. (A33). 486267
- hartree-fock-bogolyubov theory**
Time-dependent Hartree-Fock and elementary modes of excitation description of deep inelastic processes in the reaction ²⁰⁸Pb +

- ²⁰⁸Pb - a comparison. (A33). 490050
- incoherent scattering**
- A simultaneous treatment of high-lying vibrational excitations and of incoherent excitations in the deep inelastic collision between heavy ions. (A33). 460317
- krypton 86 reactions**
- Q- and Z-dependence of angular momentum transfer in deeply inelastic collisions of ⁸⁶Kr with ²⁰⁹Bi. (A34). 483864
- mass spectra**
- Calculation of isotope distributions of fusion-fission products and deep inelastic transfers in heavy ion reactions. (A33). 493208
- mass transfer**
- Mass transport and relative motion in deep inelastic heavy ion collisions. (A33). [Data] 486290
- mathematical models**
- Extended TDHF approximation illuminates the approach to thermal equilibrium. (A33). 493315
- motion**
- Mass transport and relative motion in deep inelastic heavy ion collisions. (A33). [Data] 486290
- nuclear models**
- Light-particle heavy-ion correlations in deep inelastic processes: a theoretical study of hot-spot particle emission. (A33). 460288
- transport theory**
- Simple model calculations within a microscopic transport theory of deeply inelastic heavy ion collisions. (A33). 483798
- vibrational states**
- A simultaneous treatment of high-lying vibrational excitations and of incoherent excitations in the deep inelastic collision between heavy ions. (A33). 460317
- DEEP INELASTIC SCATTERING:**
(Lepton-nucleon inelastic scattering involving an exchange of a virtual photon.)
- 0(4) expansion on the light-cone. (A21). 472042
- collective model**
- Role of deep inelastic processes in nuclear physics: experimental and theoretical aspects of deep inelastic reactions. (A21, A33; Mass asymmetry, diffusion, charge and angular distributions, energy and momentum transfer). [Data] 475615
- color model**
- Evidence for color-excitation in deep-inelastic charged-current neutrino-nucleon scattering. (A21). [Data] 489898
- corrections**
- Minimal mass corrections in deep inelastic lepton scattering. (A21). 468099
- form factors**
- Microscopic calculation of the form factors for nucleon transfer in deeply inelastic collisions. (A33). 490102
- friction**
- Possible explanation for a second deep inelastic peak in heavy-ion scattering. (A34). 481569
- heavy ion reactions**
- Some aspects of light particle emission accompanying collisions between heavy ions. (A33). 464984
- jet model**
- Jet analysis in lepton-hadron scattering from QCD. (A21). 472041
- quantum chromodynamics**
- Higher-order effects in asymptotically free gauge theories. II. (A21). 483638
- Non-perturbative effects in deep inelastic scattering. (A21). 475524
- quasi-fission**
- Role of deep inelastic processes in nuclear physics: experimental and theoretical aspects of deep inelastic reactions. (A21, A33; Mass asymmetry, diffusion, charge and angular distributions, energy and momentum transfer). [Data] 475615
- scaling laws**
- Minimal mass corrections in deep inelastic lepton scattering. (A21). 468099
- structure functions**
- Deep-inelastic structure functions for bound states in the ladder approximation. (A21, A11). 468124
- Flavour symmetry breaking in antiquark distributions. (A21). 468132
- A simple parametrization of the Q² dependence of the quark distributions in QCD. (A21). 478485
- weinberg lepton model**
- A direct test of the Weinberg-Salam model based on the investigation of p-odd asymmetries in the processes $l^+ + N \rightarrow l^+ + X$. (A21). 468028
- DEEP INELASTIC TRANSFER REACTI:**
See DEEP INELASTIC HEAVY ION REACT
- DEER:**
- body burden**
- Determination of ²⁴¹Am in reindeer bone. (B11, C21, C22; Results and radiochemical methods are discussed). 472388
- Plutonium in tissues of reindeer during 1963 - 1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- contamination**
- Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
- monitoring**
- SRP deer hunt data base. (B31, C21, C52; ¹³⁷Cs). [Data] 479648
- plutonium**
- Comparison of plutonium concentrations in deer from the southeastern United States and in deer from an integrated nuclear fuel cycle facility. (C21). [Data] 476613
- population dynamics**
- Computer generated movies to display biotelemetry data. (B31, C52, F30; Habitat studies of elk in New Mexico). 490819
- radioactivity**
- Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111
- Determination of ²⁴¹Pu in environmental samples by liquid scintillation counting: preliminary report. (C22). 473106
- radionuclide kinetics**
- Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111
- DEFECTS:**
(Not for the concept covered by CRYSTAL DEFECTS.)
- desorption**
- Method for determining changes in phase and defect concentration in solids. (A13). 481065
- elastic scattering**
- Interpretation of elastic-wave scattering theory for analysis and design of flaw-characterization experiments: The long-wavelength limit. (A11). 485316
- orientation**
- Anisotropic determination and correction for ultrasonic flaw detection by spectral analysis. (E17; Patent). 470431
- size**
- Anisotropic determination and correction for ultrasonic flaw detection by spectral analysis. (E17; Patent). 470431
- specifications**
- Methods to establish flaw tolerances. (E32, E22). 482771
- DEFEROXAMINE:**
- biological effects**
- Desferoxamine mesylate (desferal): a contrast-enhancing agent for gallium-67 imaging. (C62, C21). 491330
- DEFICIENCY (NUTRITIONAL):**
See NUTRITIONAL DEFICIENCY
- DEFORMATION:**
See also NUCLEAR DEFORMATION; SWELLING
- stability**
- Imperfect bifurcation in the presence of symmetry. (A11). 488614
- DEFORMED NUCLEI:**
(Nuclei which are deformed even in the ground state.)
- backbending**
- Nuclear structure at high angular momentum. (A33). 468418
- binding energy**
- Quasiclassical analysis of the shell structure in the nonspherical oscillatory potential. (A33). 468354
- collective model**
- Microscopic theory of nuclear collective rotation. (A33). 462608
- cranking model**
- Microscopic derivation of cranking for nuclear systems with large angular momentum. (A33). 472167
- de-excitation**
- Gamma-vibrations in fast-rotating oblate nuclei. (A33). 468302
- energy spectra**
- Influence of the lower SU(3) representations on the spectral properties of heavy deformed nuclei. (A33). 468349
- energy-level density**
- Quasiclassical analysis of the shell structure in the nonspherical oscillatory potential. (A33). 468354
- excitation**
- Dispersive effects in the excitation of the ground-state rotational band of deformed nuclei by medium energy protons. (A33). 468257
- excited states**
- The description of nuclear states in a wide range of excitation energies. (A33; ¹⁴⁶Ce, ¹²⁴Te). 475778
- e0-transitions**
- Nucleus excitation caused by decay of the bound μ^- meson. (A33; ¹⁵²Sm, ¹⁵⁶Gd, ¹⁸⁰W, ¹⁸²W, ²³⁰Th, ²³²Th, ²³²U, ²³⁴U, ²³⁸U, ²⁴⁰Pu). 468272
- e1-transitions**
- Nonadiabatic effects in odd-odd deformed nuclei. (A33). 493151
- ground states**
- Energies and moments of inertia of even-even rare earth nuclei in the SU(3)-scheme. Comparison with the unified model. (A33; ¹⁵²Sm, ¹⁵⁴Sm, ¹⁵⁶Gd, ¹⁷²Yb, ¹⁸⁰Hf nuclei). 465006
- Unified description in the SU(3)-scheme of the energy levels of ground- and γ -bands in deformed even-even nuclei and the B(E2)-factors between them. (A33; ¹⁵²Sm, ¹⁵⁴Sm, ¹⁵⁶Gd, ¹⁵⁶Gd, ¹⁵⁸Gd, ¹⁶⁰Dy, ¹⁶²Dy, ¹⁶⁴Dy, ¹⁶⁴Er, ¹⁶⁶Er, ¹⁶⁸Er, ¹⁶⁸Yb, ¹⁷⁰Yb, ¹⁷⁶Hf, ¹⁷⁸Hf, ¹⁸⁰Hf, ¹⁸²W, ¹⁸⁴W, ¹⁸⁶W, ¹⁸⁸Os, ¹⁸⁴Os, ¹⁸⁶Os, ¹⁸⁸Os). 465007
- hartree-fock method**
- Properties of deformed nuclei calculated by the Hartree-Fock method with the Skyrme interaction. (F51; Ne, Mg, Si, S, Ar). 477551
- hartree-fock-bogolyubov theory**
- Application of exact angular momentum projection to excited bands in strongly deformed nuclei. I. (A33). 478655
- heavy ion reactions**
- Coupled-channel analysis for heavy-ion induced scattering and transfer reactions. (A33; Born, WKB, and Pade approximations, JPWKB and MARSWKB codes, transfer reactions). 460296
- On the proximity treatment of the interaction between deformed nuclei. (A33). 478668
- isomeric transitions**
- The isomeric 9/2⁺ and the lowest 7/2⁻ state in the weakly deformed N=89 nuclei. (A34). 475821
- m1-transitions**
- Nucleus excitation caused by decay of the bound μ^- meson. (A33; ¹⁵²Sm, ¹⁵⁶Gd, ¹⁸⁰W, ¹⁸²W, ²³⁰Th, ²³²Th, ²³²U, ²³⁴U, ²³⁸U, ²⁴⁰Pu). 468272
- neutron reactions**
- The excitation of the lowest states of even-even deformed nuclei in the lanthanide region by DD-neutrons. (A34). [Data] 481599

- nuclear potential**
Nucleon-nuclear potentials for light deformed nuclei in the convolution method. (A33). 493247
- nuclear structure**
Microscopic theory of nuclear collective rotation. (A33). 462608
Microscopic structure of the states of deformed nuclei in the neighborhood of the yrast line. (A33). 478647
Nuclear structure at high angular momentum. (A33). 468418
- nucleon-nucleon interactions**
An approximation scheme for the calculation of nuclear interaction energies between spheroidal nuclei in the diffuse surface model. (A33). 481507
- nucleon-nucleon potential**
Nucleon-nuclear potentials for light deformed nuclei in the convolution method. (A33). 493247
- pairing interactions**
Pairing with a delta interaction in the energy density nuclear mass formula. (A33). 468422
- proton-neutron interactions**
rotational states
Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343
Energies and moments of inertia of even-even rare earth nuclei in the SU(3)-scheme. Comparison with the unified model. (A33; ^{152}Sm , ^{154}Sm , ^{156}Gd , ^{172}Yb , ^{180}Hf nuclei). 465006
Level energies and B(E2) ratios of the deformed even nuclei in the actinide region. (A33). 481515
Quasi-particle excitations in a rotating nucleus. (A33; Dysup(156,158,160), Ersub(162,164), Ybsup(166,168,170)). 493273
Unified description in the SU(3)-scheme of the energy levels of ground- and γ -bands in deformed even-even nuclei and the B(E2)-factors between them. (A33; ^{152}Sm , ^{154}Sm , ^{156}Gd , ^{158}Gd , ^{160}Dy , ^{162}Dy , ^{164}Dy , ^{164}Er , ^{166}Er , ^{168}Er , ^{168}Yb , ^{170}Yb , ^{176}Hf , ^{178}Hf , ^{180}Hf , ^{182}W , ^{184}W , ^{186}Os , ^{188}Os , ^{186}Os , ^{188}Os). 465007
- self-consistent field**
Properties of deformed nuclei calculated by the Hartree-Fock method with the Skyrme interaction. (F51; Ne, Mg, Si, S, Ar). 477551
- shell models**
Continuum shell-model description of excited states in light deformed nuclei. (A33). [Data] 486195
The deformation energy of atomic nuclei in the shell model. (A33). 490052
- spin orientation**
Polarization of deformed nuclei on the Coulomb excitation by heavy ions. (A33). 493149
- vibrational states**
Collective properties of nuclei from electron scattering. (A34). 465095
Level energies and B(E2) ratios of the deformed even nuclei in the actinide region. (A33). 481515
- yrast states**
Gamma-vibrations in fast-rotating oblate nuclei. (A33). 468302
- DEGRADATION (ENERGY):**
See **ENERGY LOSSES**
- DEGRADATION (NUCLEAR):**
See **DECAY**
- DEGRADATION (RADIOINDUCED):**
See **RADIOLYSIS**
- DEHPA:**
See **HDEHP; PHOSPHONIC ACID ESTERS**
- DEHYDROGENASES:**
biological radiation effects
Radiation effects on testes. Pt. 15. (C14). 469637
- DEKATRONS:**
See **COUNTING TUBES**
- DELAY CIRCUITS:**
specifications
Position-sensitive gas proportional chambers. (E41). 461848
- DELAYED GAMMA RADIATION:**
fission products
The osiris facility. (A34). 478688
- DELAYED NEUTRON ANALYSIS:**
sensitivity
Statistical precision of delayed-neutron nondestructive assay techniques. (B11, F41). 465247
- uranium**
Metrological characteristics of the method for uranium determination with the aid of delayed neutrons in natural objects. (B31). 490818
- DELAYED NEUTRON PRECURSORS:**
fission yield
Calculated time-dependent delayed neutron group yields for thermal-neutron fission of uranium-235. (A34). [Data] 490116
- statistical models**
Does the simple statistical model describe delayed neutron emission. (A33). 483792
- DELAYED NEUTRONS:**
On determination of $\beta_{\text{sub}}(\text{eff})$ by the pulse neutron method. (E21). 487968
- DELAYED RADIATION EFFECTS:**
age dependence
Effect of whole-body irradiation on skeletal growth in rhesus monkeys. (C14; X rays). 494304
- biological models**
Late radiation damage to pig skin. The effects of overall treatment time and number of fractions. (C14; Effects of number of fraction on severity of late X-ray effects). 494298
- brain**
Electroencephalographic findings in the late stage after CNS-irradiation for malignant neoplasms in children. (C15). 494314
- carcinogenesis**
Animal experiments with radium-224. (C21). 466198
- carcinomas**
Tumours associated with medical X-ray therapy exposure in childhood. (C15). [Data] 479893
- central nervous system**
Biological effects in subjects recovering from radiation disease of various degrees of severity (nervous system's condition). (C15). 463197
- chromosomes**
Isolabelling is a radiation-induced phenomenon. (C11). 460982
- chronic irradiation**
Delayed effects in dogs given chronic exposure to low-level gamma-ray doses. (C14). 466052
- fibrosis**
Biochemical late effects in rat lung exposed to different doses of X-rays. (C14). 479820
- hypothyroidism**
Thyroid hypofunction appearing as a delayed manifestation of accidental exposure to radioactive fall-out in a Marshallese population. (C15). 479907
- immune reactions**
Immunological competence of aging mice exposed to X- or gamma rays during young adulthood. (C14). 482046
- labelling**
Isolabelling is a radiation-induced phenomenon. (C11). 460982
- latency period**
Latent periods of radiogenic cancers occurring among Japanese A-bomb survivors. (C15). 479906
Risk estimation of radiation-induced thyroid cancer in adults. (C15). 479923
- lungs**
Long-term radiation changes in collagen in rat's lungs. (C14). 465989
- lymphatic system**
Immune proteins and other biochemical constituents of peripheral lymph in patients with malignancy and postirradiation lymphedema. (C15). 469714
Postirradiation changes on the lymphatics studied by lymphography. (C15, C64). 487258
- mammary glands**
Interaction between radiation and other breast cancer risk factors. (C15). 479889
- mice**
Late biological effects of ionizing radiation as influenced by dose, dose rate, age at exposure and genetic sensitivity to neoplastic transformation. (C14). [Data] 482048
- myeloid leukemia**
Radiation-associated chronic myelogenous leukaemia in younger people. (C15). 479925
- osteomyelitis**
Experience with intraoral resection and immediate reconstruction in cases of radio-osteomyelitis of the mandible. (C15). 482072
- partial body irradiation**
Late effects of whole- or partial-body X-irradiation on mice. Causes of death. (C14). [Data] 482047
- radiotherapy**
Anatomo-radiological study of a case of post-radiotherapeutic osteolysis of the hip. (C15). 482060
ECG-changes following postoperative irradiation of patients with mammary carcinoma. (C15). 494312
Effect of radiotherapy on the neutrophil and the lymphocyte enzymatic equipment and serum immunoglobulins in patients with cancer of the larynx. (C15). 476580
Side effects and late results of the combined radio- and chemotherapy of the brain in children with acute lymphoblastic leukemia. (C15). 469732
- radium 224**
Animal experiments with radium-224. (C21). 466198
- rats**
Unscheduled DNA synthesis in splenic lymphocytes of the rat after intrauterine X-irradiation during the foetal period. (C14). 490975
- skin**
Comparison of the incidence and time patterns of radiation-induced skin cancer in humans and rats. (C15). 482058
- skull**
Experience with intraoral resection and immediate reconstruction in cases of radio-osteomyelitis of the mandible. (C15). 482072
- teeth**
Oral and dental manifestations of radiation and chemotherapy. (C63). 470188
- whole-body irradiation**
Late effects of whole- or partial-body X-irradiation on mice. Causes of death. (C14). [Data] 482047
- x-ray radiography**
Late changes in lungs of rats irradiated with 6.5 Gy of X-rays. (C14). 472968
- DELETIONS (CHROMOSOMAL):**
See **CHROMOSOMAL ABERRATIONS**
- DELTA FUNCTION:**
electric fields
Transmission coefficient through a delta function well with and without an electric field. (A11). 492484
- transmission**
Transmission coefficient through a delta function well with and without an electric field. (A11). 492484
- DELTA RAYS:**
Delta-ray production along medium energy α particles crossing tissue-like media. (C11, C55). [Data] 465927

DELTA RESONANCES (BARYON):*See N* RESONANCES***DELTA RESONANCES (MESON):***See MESON RESONANCES***DELTA-1236 RESONANCES:**Resonance and neutral particle production in high energy $\pi\pi$ interactions. (A22; 360 GeV/c, cross sections, mechanisms).

468189

coupled channel theoryThe Δ in nuclei. (A33).

483756

electron-positron interactionsThe study of inclusive production of the nucleon isobar Δ (1232) in e^+e^- - annihilation. (A21).

486064

hadronic particle decayDiffractive dissociation process $\pi\pi \rightarrow \pi(\pi\pi p)$ at 14 GeV/c. (A22; Cross sections, angular distribution, deck effect, branching ratio).

464912

Elastic and inelastic polarization effects observed with the Argonne effective mass spectrometer. (A22; Asymmetry, s-wave Deck background and P-wave N-1470 interference).

475648

Resonance production in $\pi\pi$ interactions at 100 GeV/c. (A22; Differential cross sections, rapidity, Peyrou plots, leading protons).

478572

Single pion production by high energy neutrinos in a hydrogen bubble chamber. (A22; 5 to 100 GeV, cross sections). [Data]

478545

Study of neutrino interactions in hydrogen and deuterium. II. Inelastic charged-current reactions. (A22).

486119

particle productionInclusive measurements of $\Delta(1236)$ production and tests of one-pion-exchange at the CERN-ISR. (A22; 23 to 35 GeV).

460238

Inclusive production of $\Delta^{++}(1236)$ in anti pp interactions at 22.4 GeV/c. (A22).

483686

Study of Δ^{++} production in πp interactions at 100, 200, and 360 GeV/c. (A22). [Data]

464898

A study of inclusive Δ -production. (A21).

460170

phase shift

The imaginary components of T=1 nucleon-nucleon phase shifts and their effect on spin-dependent inelastic cross sections. (A21, A33).

475574

three-body problemFormalism for including the Δ (1236) resonance in bound trinucleon systems. (A33).

478632

DELTA-1910 RESONANCES:**coupling** π -exchange in a partial wave analysis of $\pi N \rightarrow N\pi\pi$. I. Partial wave analysis including π -exchange for $\pi N \rightarrow N\pi\pi$ in the center of mass energy range 1.65 to 1.97 GeV. II. Resonance parameter analysis of $\pi N \rightarrow \Delta\pi + \rho N + \epsilon N$. (A21; Angular distribution).

464835

DELTA-966 RESONANCES:**gamma decay**

delta (980) as a four-quark state and the radiative decays of vector and scalar mesons. (A21).

489802

quark model

delta (980) as a four-quark state and the radiative decays of vector and scalar mesons. (A21).

489802

regge trajectories

Cryptoexotic states of the four-quark system. (A21).

472026

DEMAGNETIZATION:*See also ADIABATIC DEMAGNETIZATION***DEMAGNETIZATION (ADIABATIC):***See ADIABATIC DEMAGNETIZATION***DEMINERALIZATION:***See also DESALINATION***DEMOLITION:***See also REACTOR DISMANTLING***DENATURATION (NUCLEIC ACID):***See NUCLEIC ACID DENATURATION***DENATURATION (PROTEIN):***See PROTEIN DENATURATION***DENATURED FUEL:**

(Fuel which has been diluted or spiked so that it is not suitable for weapons use.)

Denatured fuel cycles for international safeguards. (C52, F41).

461274

Reference thorium fuel cycle. (B16).

476209

research reactors

Uranium dioxide Caramel fuel: An alternative fuel cycle for research and test reactors. (E36).

495044

DENITRATION:**formic acid**

Effect of platinum group elements on denitration of high-level liquid waste with formic acid. (B12, E51). [Data]

476038

high-level radioactive wastes

Applied laboratory research of high-level waste denitration and calcination technologies. (E51).

463773

DENMARK:**energy**

Energy research. (F61).

480953

international cooperation

Report on Denmark's participation in the international cooperation on the peaceful uses of nuclear energy in the period May 1976 to December 1978. (F61).

480952

radiation protection law

Regulations No. 493 of 8 September 1977 on X-ray equipment up to 70 kV for dental purposes. (F23).

463806

Regulations No. 494 of 12 September 1977 on diagnostic X-ray equipment for veterinary purposes. (F23).

463807

Regulations No. 58 of 28 February 1978 on approval of X-ray

equipment for schools, universities and colleges. (F23).

463804

Regulations No. 59 of 20 February 1978 on X-ray skin therapy equipment up to 50 kV. (F23).

463805

Regulations No. 60 of 20 February 1978 on X-ray equipment from 50 kV to 400 kV for in-depth therapy. (F23).

463808

radioactive waste disposal

Regulatory aspects of underground disposal of radioactive waste - Danish notes. (F22).

480917

DENSIMETERS:

Nonintrusive local density determination in discontinuous fields by gammas or neutrons. (D22).

491422

cesium 137

Construction and testing of nuclear ground trail probes for the exploration of the sea bottom. (D22, E41, B32).

476850

radiometric gages

Density and moisture content determination with portable units. (D22).

476859

Method and arrangement for the determination of particle velocities in conveying streams. (D22).

473589

DENSITOMETERS:**collimators**

Automatic rotor diaphragm for a microphotometer 2. (E41).

495072

gamma sourcesApplication of a 3-beam γ densitometer to two-phase flow regime and density measurements. (E11, D22).

480340

performanceApplication of a 3-beam γ densitometer to two-phase flow regime and density measurements. (E11, D22).

480340

X-ray L/sub III/-edge densitometer for assay of mixed S.N.M. solutions. (F41).

488484

specifications

Capacitance densitometer for flow regime identification. (D22, E17; Patent).

470270

DENSITY:

(For specific weight only; see also descriptors such as CARRIER DENSITY, CURRENT DENSITY, and FLUX DENSITY.)

blood

Computer tomographic densitometry of human blood. (C61). [Data]

470038

DENSITY (CARRIER):*See CARRIER DENSITY***DENSITY (CURRENT):***See CURRENT DENSITY***DENSITY (ELECTRON):***See ELECTRON DENSITY***DENSITY (ION):***See ION DENSITY***DENSITY (PLASMA):***See PLASMA DENSITY***DENSITY (POWER):***See POWER DENSITY***DENSITY MATRIX:****irreducible representations**

U(3(A-1)) irreducible expansion of a model nuclear density matrix. (A33).

468340

wigner distribution

Nuclear densities from theory and experiment. (A33).

481472

DENTIN:**biomedical radiography**Results of measurements of surface doses and penetration dose at 125 radiography of the dentine. (C54). [Data]

491223

personnel monitoring

Results of measurements of surface doses and penetration dose at radiography of the dentine. (C54). [Data]

491223

DENTISTRY:**diagnostic techniques**

Dental X-ray diagnostic device. (C61).

482308

radiation doses

Reduction of patient exposure during dental radiography. (C54).

463413

[Data]**radiation protection**

Radiological protection in the dental profession. (C54, C55, C53).

463406

[Data]**radiodermatitis**

Radiodermatitis of the hands in a dental practitioner. (C15).

491009

tracer techniques

Use of radioisotopes in the study of permeability of hard dental tissue. (C31).

473137

DEOXIDATION:*See REDUCTION***DEOXYCYTIDINE:****solvated electrons**

The reaction of solvated electrons with cytosine, 5-methyl cytosine and 2'-deoxycytidine in aqueous solution. The reaction of the electron adduct intermediates with water, p-nitroacetophenone and oxygen. (C11).

490915

DEOXYPENTOSE NUCLEIC ACID:*See DNA***DEOXYRIBONUCLEASE:***See DNA-ASE***DEOXYRIBONUCLEIC ACID:***See DNA***DEPARTURE NUCLEATE BOILING:****forced convection**

Transient boiling heat transfer under forced convection. (E31, E32).

463622

DEPLETED URANIUM:**casting**

Application of metal oxide refractories for melting and casting reactive metals. (B23, B21).

486961

DEPLETION (ISOTOPIC):*See ISOTOPE SEPARATION***DEPLETION (NUCLEAR FUELS):***See BURNUP***DEPOSITION:**(For deposition of elements and nuclides in living organisms use **RETENTION**.)*See also* **CHEMICAL VAPOR DEPOSITION**; **CLADDING**; **DIFFUSION COATING**; **ELECTROCHEMICAL COATING**; **ELECTRODEPOSITION**; **ELECTROPLATING**; **PLATING**; **SPRAY COATING**; **SURFACE COATING**; **VAPOR PLATING****measuring methods**

Development of a dual-tracer real-time particle dry-deposition measurement technique for simple and complex terrain. (C52, E42). 480145

radon

The reduction of airborne radon daughter concentration by plateau on an air mixing fan. (B33). [Data] 476485

velocity

Profile measurements of aerosol deposition. (C52). 480047

DEPOSITION (GRAVITATIONAL):*See SEDIMENTATION***DEPOSITS:****hydrology**

Geohydrology of deposits of Claiborne age at the Savannah River Plant. (B31). [Data] 479621

DEPOSITS (GEOLOGICAL):*See GEOLOGIC DEPOSITS***DEPRESSURIZATION:****one-dimensional calculations**

Transient analyses of a 1000-MW gas-cooled fast reactor. (C52, E35). 469979

pool boiling

Note on pool swell dynamics during depressurization. (C52, E21). 461192

pressure release

Experimental and theoretical investigation on the depressurization of a vessel with internals. (E31). [Data] 470650

DEPTH DOSE DISTRIBUTIONS:**accuracy**An intercomparison between two methods of obtaining percentage depth doses for irregular shaped fields and comparison of each method with experimental data for ⁶⁰Co and 10 MV X rays. (C55). [Data] 473323**computer codes**

Physico-technical provision of remote radiotherapy using fields of complex configuration. (C54, C55). 494462

dosemeters

Comparison of methods for depth dose determination. (C55). 494464

errors

Comparison of film and ion chamber systems for depth-dose measurements for a 25 MV beam. (C55, C63). [Data] 473298

kidneys

Heavy ion beam model for radiobiology. (C11, C55). [Data] 460994

linear accelerators

The clinac-18 linear accelerator. (C63). 487755

measuring methods

Imaging instrument for positron emitting heavy ion beam injection. (A32, E41, E16). 464936

monte carlo method

Calculation of fast neutron depth-dose in the ICRU standard tissue phantom and the derivation of neutron fluence-to-dose-index conversion factors. (D15). [Data] 491406

Mixed gamma-neutron dose distribution in biological subjects of varying size. (C21). 463237

natural uranium

Absorbed dose rate produced by natural uranium as a function of depth in tissue. (C55, E41). [Data] 463433

radiotherapy

Method for determining base values of irradiation condition parameters. (D15, C60). 482522

si semiconductor detectors

Multidetector endodosimetry probe with silicon-pn-junction-diodes for in-vivo-dosimetry. (C63). 494631

tissue-equivalent materialsNeutron absorbed dose measurements in phantom from ²⁵²Cf source. (C11, C55). [Data] 465902**water**Microdosimetry of 400 MeV/AMU ¹²C and 450 MeV/AMU ⁴⁰Ar beams. (C11, C55). [Data] 460977

Prediction of biological effect of pion irradiation using the star distribution to determine the high LET dose. (C11, C55). [Data] 465896

DEPTH DOSES:*See DEPTH DOSE DISTRIBUTIONS***DERMATITIS:***See also* **RADIODERMATITIS****DESALINATION:****heat exchangers**

Heat exchanger design for desalination plants. (E13). 473633

pilot plants

Annual report 1977. (F62). 471195

DESALINATION REACTORS:*See also* **BN-350 REACTOR****cost**

Conceptual design and cost study for a dual-purpose nuclear-electric reverse osmosis seawater conversion plant. (E30). 477189

specifications

Conceptual design and cost study for a dual-purpose nuclear-electric reverse osmosis seawater conversion plant. (E30). 477189

DESERTS:**hydrology**Palaeoclimatic information from deuterium and oxygen-18 in carbon-14-dated north Saharian groundwaters. Groundwater formation in the past. (B32). [Data] 463005
Tritium profiles in Kalahari sands as a measure of rain-water recharge. (B32). [Data] 463007**DESIGN (COMPUTER-AIDED):***See* **COMPUTER-AIDED DESIGN****DESIGN (TECHNICAL DRAWINGS):***See* **DIAGRAMS****DESIGN (TECHNICAL SPECIFICAT.):***See* **SPECIFICATIONS****DESIGN BASIS ACCIDENTS:***See also* **ATWS****earthquakes**

Piping design in nuclear power plants against seismic loadings. (E22). 482691

fission product release**SKIRON**: a computer code for evaluating atmospheric dispersion for design basis accident analyses. (C52). 487494**fuel element failure**

Reactor experiments on fuel rod behavior under accident conditions. (E35). 461769

DESIODOTHYROXINE:*See* **THYRONINE****DESORPTION:**

Plasma-surface interactions in tokamaks. (A14, A12). 467621

chemical reaction kinetics

Desorption kinetics of one- and two-step mechanisms. (B12). 476087

kinetics

Heat of vaporization spectrometer. (B12). 475945

DESOXYRIBONUCLEIC ACID:*See* **DNA****DESTRUCTIVE ANALYSIS:***See also* **THERMAL GRAVIMETRIC ANALYSIS****DESTRUCTIVE TESTING:***See also* **CHARPY TEST****fracture properties**

Applicability and interpretation of fracture test methods for metals. (E17). 491698

DETAILED BALANCE PRINCIPLE:**resonance**Test of detailed balance at isolated resonances in the reactions ²¹Al + p reversible ²⁴Mg + α and time reversibility. (A34). 475797**DETECTION (FAILED ELEMENT):***See* **FAILED ELEMENT DETECTION****DETECTION (NUCLEAR EXPLOSIONS):***See* **NUCLEAR EXPLOSION DETECTION****DETECTION (RADIATION):***See* **RADIATION DETECTION****DETECTION (SEISMIC):***See* **SEISMIC DETECTION****DETECTION LIMITS:***See* **SENSITIVITY****DETECTORS (RADIATION):***See* **RADIATION DETECTORS****DETERGENTS:****radiolysis**

On the possibilities of purifying waste water containing dodecylbenzenesulfonate and nonylphenylpolyglycolic ether by irradiation. (B14, D23). 476175

DETERMINATION (CHEMICAL):*See* **CHEMICAL ANALYSIS****DETONATION WAVES:***See* **SHOCK WAVES****DETONATIONS:***See* **EXPLOSIONS****DEUTERIUM:****absorption spectra**

Anomalous double-peaked one-phonon far infrared absorption in compressed deuterium. (A13). 477894

Fundamental absorption spectra of solid hydrogen. (A13). [Data] 477891

activation analysis

Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504

atom-molecule collisions

Influence of the phase shift on the vibration energy transfer for a collision between an atom and a highly asymmetric diatomic molecule. (A12). [Data] 464008

Uni- and bimodal product energy distributions for the reactions H + Cl₂(γ = 1) and D + Cl₂(γ = 1). (A12, B12). 483152A vibrational bias mechanism for diatomic dissociation: induction times and steady rates for O₂, H₂ and D₂ dilute in Ar. (A12). 483187**atomic beams**

Cryogenic source "cryop 2" of polarized hydrogen and deuterium atoms. (E16, A12). 491570

backscattering

Model for hydrogen isotope backscattering, trapping and depth profiles in C and a-Si. (A14). 471625

chemical composition

Constraints on cosmology and neutrino physics from big bang nucleosynthesis. (A15). 464694

Light-element abundances, galactic evolution, and the universal baryon density. (A15). 478294

chemical properties

Cryogenic hydrogen data pertinent to magnetic fusion energy. (B12). [Data] 490410

- chemical reaction kinetics**
Accuracy of tunneling corrections to transition state theory for thermal rate constants of atom transfer reactions. (B13). 460550
- chemical reaction yield**
Survey of reactions involving H⁺, H⁺, and Cl atoms. (B13). 460579
- chemical reactions**
Comparison of quasi-classical, transition state theory, and quantum calculations of rate constants and activation energies for the collinear reaction $X + F_2 \rightarrow XF + F$ ($X = \text{Mu, H, D, T}$). (B13). 460547
- Electronic and vibrational relaxation studied by photoluminescence spectroscopy in low temperature matrices. 2. A¹A₂ state of formaldehydes (H₂CO, HDCO, and D₂CO)¹. (B12). 468812
- Exact quantum mechanical transition state theory. 1. An overview. (B12). 460485
- Franck-Condon factors in studies of dynamics of chemical reactions. V. Simple construction of quasiadiabatic potential energy surfaces and numerical evaluation of Franck-Condon integrals. (B12). [Data] 465420
- Survey of reactions involving H⁺, H⁺, and Cl atoms. (B13). 460579
- Toward a unified master-equation theory of thermal decomposition reactions. Analytic solution for diatomic dissociation. (B12). 460545
- Tunnelling in collinear light-heavy-heavy reactions. (B12). 472435
- chemisorption**
Desorption spectrometric results of the adsorption of deuterium on pyrocarbon, silicon and boron carbide surfaces. (B23). [Data] 490655
- The distribution of the deuterium atoms in the deuterated hexagonal Laves-phase ZrMn₂D₃. (A13). 481088
- collisions**
Modulated molecular beam study of the mechanism of the H₂-D₂ exchange reaction on Pt(111) and Pt(332) crystal surfaces. (A12). [Data] 464077
- cosmochemistry**
Interstellar HCN, HCO⁺, and the galactic deuterium gradient. (A15). 478317
- Observations of interstellar HNC, DNC, and HN¹³C: Temperature effects on deuterium fractionation. (A15). 489634
- Riddle of cosmic deuterium. (A15; None). 467908
- diffusion**
Diffusion of hydrogen and its isotopes in BCC metals. (B22). 472634
- Electromigration of hydrogen and deuterium in vanadium, niobium and tantalum. (B22). 465618
- Hydrogen diffusion and trapping in bcc and fcc metals. (B22). 486915
- Hydrogen in b.c.c. metals. (B23). 460762
- Magnetic aftereffect of hydrogen and deuterium in Co₂Sm. (A13). 477886
- Permeation of hydrogen isotopes in nickel. (B12, B22). 465283
- dissociation**
A vibrational bias mechanism for diatomic dissociation: induction times and steady rates for O₂, H₂ and D₂ dilute in Ar. (A12). 483187
- distillation**
Hydrogen isotope distillation for fusion power reactors. (A14, D13). 471609
- electric discharges**
Canal rays as atomic light sources. (A12). 488810
- electron-molecule collisions**
Doppler profile measurements of Balmer- α radiation by electron impact on H₂, D₂, CH₄ and other simple hydrocarbons. (B14). 468949
- High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
- Time-of-flight study of H(2S) and D(2S) produced by electron impact on H₂, D₂, and HD: Evidence for predissociation. (A12). 488892
- element abundance**
On the abundance of deuterium in the solar atmosphere. (A15). 483508
- energy transfer**
Electronic to vibrational energy transfer from I(5 ²P/sub 1/2/). III. H₂, HD, and D₂. (A12). 477752
- energy-level transitions**
Gauge model of parity nonconservation in neutral-current phenomena. (A21, A12; SU(2) x U(1) x U(1)). 478475
- excitation**
Low-energy excitations of hydrogen and deuterium in LaNi₅. (A13). [Data] 481078
- excited states**
Canal rays as atomic light sources. (A12). 488810
- fabrication**
Effects of vacuum processing erbium dideuteride/ditritide films deposited on chromium underlays on copper substrates. (B23, B21, D22). 486967
- fluorescence**
Resonance absorption measurements of atom concentrations in reacting gas mixtures. II. Calibration of microwave sources over a wide temperature range. (A12). 485419
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. I. Shapes of H and D Lyman- α lines from microwave sources. (A12). 485484
- hot atom chemistry**
Kinetic theory of a photolytically driven hot-atom reaction. (B13). 486709
- hydrogen**
Structure of solid H₂-D₂ mixtures. (A13). 489012
- inelastic scattering**
The optical potential in the scattering of hydrogen and deuterium atoms from LiF and NaF (001). (A13). 459791
- infrared spectra**
The infra-red spectrum of C₂D₂ in the region of the bending fundamental vs. (A12). [Data] 462126
- ion implantation**
Hydrogen isotope trapping in materials exposed in PLT. (A14). 460015
- ion-atom collisions**
Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). 464012
- ion-molecule collisions**
Reactions of ions with atomic and molecular free radicals. Progress report, May 1, 1978-April 30, 1979. (A12; Summaries of research activities at Univ. of Minnesota). 477744
- isotope effects**
Adsorption of alcohols and water on alumina. 3. dc conductivity and dielectric loss measurements. (B12). 486585
- Calculated infrared and Raman spectral of the 'Ag ground states of rectangular cyclobutadiene and tetradeuteriocyclobutadiene. (B12). 486657
- Conformational dependence of secondary β -deuterium isotope effects. (B12). [Data] 486589
- Deuterium isotope effects in the 3,3-sigmatropic shift. (B12). 468716
- Effect of D₂O on the lower critical solution temperature of triethylamine in water. (B12). [Data] 486605
- Electron spin resonance study of the decay of methyl radical-bromide ion pairs in acetonitrile at low temperature. (B14, B12). 486769
- Electronic and vibrational relaxation studied by photoluminescence spectroscopy in low temperature matrices. 2. A¹A₂ state of formaldehydes (H₂CO, HDCO, and D₂CO)¹. (B12). 468812
- Enantiomerically pure R(-)-(+)-2-phenylethanol-2-d and -1,1,2-d₃, and (S)(-)-1-phenylethane-1-d, -1,2-d₃, -1,2,2-d₃, and -1,2,2,2-d₄. (B12). 465303
- Fluorescence emission spectroscopy, radiative lifetimes, and vibrational relaxation rates of the 4⁰ and 4¹ single vibronic levels of D₂CO and HDCO (A 'A₂). (B12, B11). [Data] 486660
- Growth and decay properties of trapped H and D atoms produced by the photolysis of HI, DI, and HBr in 3MP-d₄ glass. Evidence for tunneling abstraction of D from C-D bonds by H⁺. (B12). [Data] 465278
- Infrared photochemistry of halogenated ethylenes. (B12, B11). 472458
- Intramolecular kinetic isotope effect in gas-phase proton-transfer reactions. (B12). 490420
- Isotope effects in the hydrogenation and exchange of benzene on platinum and nickel. (B12). 486673
- Kinetic α secondary deuterium isotope effects for O-ethyl S-phenyl benzaldehyde acetal hydrolysis. (B12). [Data] 486596
- Kinetic isotope effect in the thermolysis of methylenecyclobutane. (B12). [Data] 486581
- Kinetic isotope effects in mechanisms of thermal allylic rearrangements. (B12). [Data] 472442
- Lactim-lactam tautomeric interconversion mechanism in water-polar aprotic solvent water systems. II. Hydration of 2-hydroxypyridines. Evidence for a bifunctional water-catalyzed proton transfer. (B12). [Data] 486569
- Neighboring ortho carboxyl group participation and α -deuterium isotope effects in the hydrolysis of benzyl bromides. (B12). [Data] 486677
- Nonclassical brexyl cation. A reassessment. (B12). 486587
- Permeation of hydrogen isotopes in nickel. (B12, B22). 465283
- Phase-dependent conformation and vibrational spectra of 1,3-disilacyclobutane. (B12, B11). 465326
- Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- Proton exchange and temperature studies of pyrazole in dimethyl-d₄ sulfoxide by ¹³C NMR. (B12). [Data] 472448
- Proton, deuterium, and tritium nuclear magnetic resonance of intramolecular hydrogen bonds. Isotope effects and the shape of the potential energy function. (B12). 460436
- Reduction of benzaldehyde by methoxide ion in aqueous methanol. (B12). 490413
- Remote secondary deuterium kinetic isotope effects as a probe of steric strain in the solvolysis of tertiary alkyl carbonyl systems. (B12). [Data] 486566
- Secondary α -hydrogen kinetic isotope effects in nucleophilic additions to ferrocenyl-stabilised carbocations. (B12). [Data] 462696
- Secondary deuterium kinetic isotope effects in the thermal stereomutations of 1-cyano-2-phenylcyclopropanes. (B12). [Data] 472412
- Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
- Secondary deuterium isotope effects for acid-catalyzed hydrolysis of inosine and adenosine. (B12). 462739
- Solubility of hydrogen and deuterium in body-centered-cubic uranium alloys. (B15, B12). [Data] 465506
- Solvent deuterium isotope effect on the liver alcohol dehydrogenase reaction. (B12). 490402
- Solvolysis of cyclopentyl p-bromobenzenesulfonate in aqueous hexafluoroisopropyl alcohol. Deuterium rate effects, stereochemistry of substitution and elimination, and reaction mechanism. (B12). 460523
- Sources of hydrogen in the electrochemical reduction of iodobenzene in dimethylformamide solution. (B12). 486560
- Standard transported entropy of chloride ion in H₂O and D₂O. (B12). 493652

- Superconductivity in PdHsub(x)(Dsub(x)) from 0.2 to 4 K. (A13). 492694
- Survey of reactions involving H⁺, H⁺, and Cl atoms. (B13). 460579
- Thermal ion-molecule reactions in oxygen-containing molecules. (B12). [Data] 462714
- Thermal rate constants, energy dependence, and isotope effect for halogen-hydrogen halide reactions. (B12). 468808
- Thermodynamics of ionization of D₂O and D₂PO₄⁻. (B12). [Data] 472451
- Thermolysis of cis- and trans-1,2-dideuteriocyclobutane. (B12). [Data] 472419
- Toward a unified master-equation theory of thermal decomposition reactions. Analytic solution for diatomic dissociation. (B12). 460545
- Tunnelling in collinear light-heavy-heavy reactions. (B12). 472435
- Vibrational assignments for the Raman and the phosphorescence spectra of 9,10-anthraquinone and 9,10-anthraquinone-d₈. (B12; Low temperature spectra). [Data] 486628
- Vibrational spectra of cis-dimethyldiazene-d₀, -1,1,1-d₃, and -d₅. (B12). [Data] 486559
- isotope ratio**
- Contribution to the study of evaporation of natural water using stable isotope. (B32, B11). [Data] 472860
- D/H and ¹⁸O/¹⁶O ratios of biotites from the Hiroshima and Tottori batholiths. (B31). 476424
- D/H ratios in speleothem fluid inclusions: a guide to variations in the isotopic composition of meteoric precipitation. (B32). 469538
- Hydrogen, oxygen and carbon isotopic evidence for the origin of rodingites in serpentinized ultramafic rocks. (B31). [Data] 462975
- Sampling system of atmospheric water vapour for analysis of the ν sub(D) relationship. (B32, B11). 479660
- isotope separation**
- Deuterium separation factors in ammonia-hydrogen exchange. (D12, B12). [Data] 466440
- Hydrogen isotope separation. (D12, D13; Patent). 473553
- Method for heavy-water production by H₂S-H₂O chemical exchange process. (D12; Patent). 466441
- A note on hydrogen isotope fractionation involving acidic and basic solutions. (B32, B12). 494224
- Process for the exchange of hydrogen isotopes using a catalyst packed bed assembly. (D12; Patent). 466439
- Separation process of hydrogen isotopes. (D13). 473555
- isotopic exchange**
- Catalytic reactions of hydrocarbons over Pt-Pd alloys. II. Deuterium exchange of methane and ethane over Pt-Pd alloy films. Surface composition of Pt-Pd alloy system. (B12). [Data] 478950
- Chiral trialkylborane reducing agents. Preparation of 1-deuterio primary alcohols of high enantiomeric purity. (B12). [Data] 486637
- Deuterium isotope effects in the 3,3-sigmatropic shift. (B12). 468716
- Enantiomerically pure (R)-(+)-2-phenylethanol-2-d and -1,1,2-d₃, and (S)-(+)-1-phenylethane-1-d, -1,2-d₂, -1,2,2-d₃, and -1,2,2,2-d₄. (B12). 465303
- The exchange reaction between hydrogen and deuterium. I. Importance of surface reactions in the steady-state mechanism. (B12). 462721
- The exchange reaction between hydrogen and deuterium. II - Proposal for an heterogeneous initiation mechanism of gaseous phase reactions. (B12). 462720
- Frank-Condon factors in studies of dynamics of chemical reactions. V. Simple construction of quasiadiabatic potential energy surfaces and numerical evaluation of Frank-Condon integrals. (B12). [Data] 465420
- Growth and decay properties of trapped H and D atoms produced by the photolysis of HI, DI, and HBr in 3MP-d₁₄ glass. Evidence for tunneling abstraction of D from C-D bonds by H⁺. (B12). [Data] 465278
- Kinetic α secondary deuterium isotope effects for O-ethyl S-phenyl benzaldehyde acetal hydrolysis. (B12). [Data] 486596
- Peak power and heavy water production from nuclear electrolytic H₂ and O₂ in Canada. (D12). [Data] 473552
- Poisoning by carbon monoxide in the hydrogen exchange reaction between deuterium gas and water preadsorbed on a platinum-alumina catalyst. (B12). [Data] 465323
- Proton exchange and temperature studies of pyrazole in dimethyl-d₄ sulfoxide by ¹³C NMR. (B12). [Data] 472448
- Radical isomerization and hydrogen-deuterium exchange in reactions of silver p-tert-butylbenzoate. (B12). 460461
- Selective formation of trans-2-butene-1,4-d₂ and (E)-2-methyl-2-butene-1,4-d₂ in deuteration of 1,3-butadiene derivatives over thorium oxide catalyst. (B12). [Data] 478954
- The solubility and isotopic exchange equilibrium for hydrogen isotopes in lithium. (B12). 490408
- Thermolysis of cis- and trans-1,2-dideuteriocyclobutane. (B12). [Data] 472419
- laser isotope separation**
- Deuterium separation with 1400-fold single-step isotopic enrichment and high yield by CO₂-laser multiple-photon dissociation of 2,2-dichloro-1,1,1-trifluoroethane. (D13). 466446
- IR photolysis of CDF₃: a study in kinetics of multiple-photon dissociation with applications to deuterium separation. (B12). 490352
- Separation and deuterium isotopes enrichment process. (D12; laser). 470224
- laser spectroscopy**
- Proposed implementation of laser raman scattering spectroscopy for analysis of hydrogen isotopes. (B11). 481626
- laser-produced plasma**
- Holographic interferometry of isolated deuterium plasmas produced by a CO₂ laser. (A14). [Data] 492758
- liquid metals**
- Fusion via metallic deuterium. (A14, A17). 489248
- melting**
- The triple point of pure normal-deuterium. (A13, A14). [Data] 471518
- molecule collisions**
- Generalized transition state theory. Quantum effects for collinear reactions of hydrogen molecules and isotopically substituted hydrogen molecules. (B12). 486600
- molecule-molecule collisions**
- Quantum chemistry by random walk: H₄ square. (A12). 477698
- Vibrational relaxation HF (v=3,4) by H₂, D₂, and CO₂. (A12). 467191
- muonic molecules**
- Adiabatic representation of three-body problem with the Coulomb interaction. (A33). 493312
- nuclear magnetic resonance**
- Determination of deuterium fraction in heavy water by proton chemical shifts. (B11). 490292
- Spinor behaviour of a double quantum transition in three-level systems. (A13). 471591
- Utilization of NMR in determination of hydrogen structure in solids. (A13, B22). 464126
- nuclear reaction kinetics**
- Hydrogen determination by charged particle reactions. (B11). 478821
- nucleosynthesis**
- High-energy neutrino background: Limitations on models of deuterium production. (A15). 489477
- oscillator strengths**
- Partial oscillator strengths (25-40 eV) for repulsive states of D₂(H₂). (A12). [Data] 471412
- p invariance**
- Measurements of parity nonconservation in hydrogen and deuterium. (A12). 464000
- phase transformations**
- To the problem of the phase transition in solid deuterium (e-D₂). (A13). 488952
- photoelectron spectroscopy**
- Threshold photoelectron spectra of atmospheric molecules. I. Description of method and application to H₂, D₂, and N₂. (A12). [Data] 464096
- photoionization**
- Turbulent interaction fronts in counterstreaming laser-produced plasma studies. (A14). 467595
- photon-molecule collisions**
- On isotope effects in the predissociations of HD. (A12). 471334
- physical properties**
- Cryogenic hydrogen data pertinent to magnetic fusion energy. (B12). [Data] 490410
- physical radiation effects**
- Effects of neutron radiation on 4.2-K cryocondensation panels. (A14). 467522
- polarization**
- A relativistic effect of deuterium on the photon circular polarization in np→dy process. (A33). 462616
- resonance absorption**
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. II. Calibration of microwave sources over a wide temperature range. (A12). 485419
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. I. Shapes of H and D Lyman- α lines from microwave sources. (A12). 485484
- rydberg correction**
- Partial oscillator strengths (25-40 eV) for repulsive states of D₂(H₂). (A12). [Data] 471412
- Spectrum of triatomic hydrogen. (A12). 477758
- scattering lengths**
- Measurement of coherent neutron scattering lengths of gases. (A12). [Data] 483181
- solid solutions**
- Structure of solid H₂-D₂ mixtures. (A13). 489012
- solids**
- Anomalous double-peaked one-phonon far infrared absorption in compressed deuterium. (A13). 477894
- solubility**
- The solubility and isotopic exchange equilibrium for hydrogen isotopes in lithium. (B12). 490408
- Solubility of hydrogen and deuterium in body-centered-cubic uranium alloys. (B15, B12). [Data] 465506
- spallation**
- Electrodesintegration of deuterium near the threshold and models of nucleon-nucleon interaction. (A33). 493211
- spinors**
- Spin interferometry and phase relations in three level systems. (A32). 472127
- thermonuclear reactions**
- Fusion via metallic deuterium. (A14, A17). 489248
- tracer techniques**
- Genetic hazard of ³H: estimation by oocyte uptake of ³H. (C21; Mice). 479961
- transition temperature**
- The triple point of pure normal-deuterium. (A13, A14). [Data] 471518
- trapping**
- Model for hydrogen isotope backscattering, trapping and depth profiles in C and a-Si. (A14). 471625
- ultrasonic waves**
- Sound velocity in liquid hydrogen and deuterium. (A17). 489705

- visible spectra**
Spectrum of triatomic hydrogen. (A12). 477758
- water**
Deuterium measurement by emission spectrometry. (C21). 461100
- x-ray diffraction**
Metal atom-induced diffuse scattering from short-range order among deuterium atoms in single crystal α -phase V_2D . (B22). [Data] 472648
- DEUTERIUM COMPOUNDS:**
See also DEUTERIUM TRITIDE; HYDROGEN DEUTERIDE; LITHIUM DEUTERIDES
- adsorption**
Photons as a probe of hydrogen in metals: photoelectron and optical studies. (B23). 472708
- charged-particle transport**
Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
- chemical preparation**
Synthesis and application of stereospecifically tritium or deuterium labelled mevalonic acid. (B13). 476155
- chemical radiation effects**
Temperature dependence of ionization processes of methanol and deuteromethanol during electron and photon impacts. (B14). 479241
- chemical reaction yield**
Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- chemical reactions**
Electronic and vibrational relaxation studied by photoluminescence spectroscopy in low temperature matrices. 2. A^1A_2 state of formaldehydes (H_2CO , $HDCO$, and D_2CO). (B12). 468812
- Growth and decay properties of trapped H and D atoms produced by the photolysis of HI, DI, and HBr in 3MP-d₁₄ glass. Evidence for tunneling abstraction of D from C-D bonds by H⁺. (B12). [Data] 465278
- Intermolecular energy transfer effects in thermal unimolecular reactions. (B12). 460534
- Primary deuterium isotope effects in the oxidation of Benzyl-a-d alcohol by transition elements and related reagents: mechanisms of electron transfer. (B12). 460486
- crystal structure**
Nuclear magnetic resonance evidence for the occurrence of an ordered structure in the La-H system near $LaH_{2.65}$ at 250°K. (B23). 460767
- Structure of the lambda-phases of niobium deuterium. (B23). 479476
- crystal-phase transformations**
The incoherent phase transitions of hydrogen and deuterium in niobium. (B22). [Data] 481854
- Structure of the lambda-phases of niobium deuterium. (B23). 479476
- decomposition**
AES detection of TiD_2 decomposition. (B12). 490378
- deuteron reactions**
Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
- einstein coefficients**
Radiative lifetimes of OH(A²) and Einstein coefficients for the A-X system of OH and OD. (A12). [Data] 471333
- energy-level density**
Low-energy excitations of hydrogen and deuterium in $LaNi_5$. (A13). [Data] 481078
- energy-level transitions**
Forbidden transitions in symmetric-top molecules: PH_3 and PD_3 . (A12). 459737
- hexagonal lattices**
The distribution of the deuterium atoms in the deuterated hexagonal Laves-phase $ZrMn_2D_3$. (A13). 481088
- infrared spectra**
The infra-red spectrum of C_2HD around 700 cm^{-1} . (A12). [Data] 462097
- The near infra-red emission band of DO_2 : determination of the molecular geometry. (B12). [Data] 460539
- ion-molecule collisions**
Internal energy effects of primary ion on the ion-molecule reactions of deuterio-acetylene. (B14). 472548
- isotope effects**
Inorganic photophysics in solution. (B13). [Data] 462752
- Kinetic deuterium isotope effects in E2 elimination reactions. (B12). 493700
- laser isotope separation**
Separation of hydrogen isotopes. (D13). 494655
- magnetic properties**
Magnetic properties of dihydrides and dideuterides of Er and Ho. (B23). 479487
- magnetic susceptibility**
Magnetic susceptibility of hydrides and deuterides of group 5 transition metals. (B22; Sc, Y, Ti, Zr, Hf, V, Nb, Ta hydrides and deuterides). 476325
- molecule-molecule collisions**
Mechanisms of energy transfer in the deuterium fluoride system. (A12). [Data] 464109
- neutron diffraction**
Neutron diffraction study of γ iron titanium deuteride. (A13). [Data] 462249
- A neutron scattering study of DCN. (A31). 490004
- nuclear magnetic resonance**
Deuterium quadrupolar interaction in the $M_2CuX_4.2D_2O$ compounds. (A13). 489017
- Nuclear magnetic resonance evidence for the occurrence of an ordered structure in the La-H system near $LaH_{2.65}$ at 250°K. (B23). 460767
- order-disorder transformations**
Effect of high pressures on phase transformations in hydrides. (B22). 476269
- Evidence for H (D) ordering in $PdH/sub x/$ ($PdD/sub x/$). (B23). [Data] 465688
- photoelectron spectroscopy**
Study by photoelectron spectroscopy of isotopic effects in various polyatomic molecules. Comparison between experimental and calculated vibrational transitions probabilities. (A12; C_2H_4 , C_2D_4). 462105
- quantitative chemical analysis**
Determination of total gas in lithium tritide-deuteride compounds. (B11). 486547
- rotational states**
Vibrational energy transfer in selectively excited diatomic molecules. (A12; Relaxation rates, self-relaxation, upper limits). 477725
- specific heat**
Heat capacity and thermal diffusivity of $ScD/sub x/$ and $ErD/sub x/$. (B23). 479500
- spin-lattice relaxation**
Spin-lattice relaxation time and quadrupole coupling of deuterium in $PdDsub(0.70)$. (A12). 481011
- storage**
Low temperature magnetic properties of the hydrides and deuterides of $Er(Fe/sub 1-x/Mn/sub x/)_2$. (B23). 479504
- superconductivity**
Superconductivity in $PdHsub(x)Dsub(x)$ from 0.2 to 4 K. (A13). 492694
- Superconductivity in Pd-Si-H(D) alloys. (B22). [Data] 462912
- thermal diffusion**
Heat capacity and thermal diffusivity of $ScD/sub x/$ and $ErD/sub x/$. (B23). 479500
- thermodynamic properties**
Stability of the lanthanide hydrides. (B12). [Data] 478917
- tracer techniques**
Basic studies on quantitative determination of two glucuronides of befunolol metabolite by selected ion monitoring (SIM) using mono-deuterium labelled compound. (C45). 482188
- transition temperature**
Theory of the isotope effect in superconducting compounds: Pd and Mo_6Se_8 . (B22, A17, B12). 481839
- vibrational states**
Computation of vibrational stretching spectra of CH_2X_2 and CD_2X_2 molecules using the internal coordinate model. (A12). 483228
- Vibrational energy transfer in selectively excited diatomic molecules. (A12; Relaxation rates, self-relaxation, upper limits). 477725
- x-ray diffraction**
Metal atom-induced diffuse scattering from short-range order among deuterium atoms in single crystal α -phase V_2D . (B22). [Data] 472648
- DEUTERIUM HYDRIDE:**
See HYDROGEN DEUTERIDE
- DEUTERIUM IONS:**
Neutral fragment production in dissociative collisions of D_3^+ ions. (A12). 464058
- beam extraction**
Design of a 10-kV deuterium-ion extractor for continuous service. (A12, E16). 467192
- beam production**
Accelerator system for producing two-component beams for studies of interactive surface effects. (E16). 466541
- carrier density**
 H^- and D^- production in plasmas. (A14). 489103
- collisions**
Application of matrix isolation spectroscopy to the measurement of sputtering yields. (B21). 476232
- H^+ and D^+ sputtering of thin tantalum films in the energy range of 0.6 to 15 keV. (B22). 476301
- H^- and D^- production in plasmas. (A14). 489103
- dissociation**
Effect of vibrational and rotational excitation on dissociative attachment in hydrogen. (A12). 467152
- electron capture**
Electron capture to $D_3/sup ts-/$ and $D_3/sup ts0/$ repulsive states by $D_3/sup ts+ /$ in Cs. (A12). 463963
- ion implantation**
On depth profiling of hydrogen and helium isotopes and its application to ion-implantation studies. (A13). 467371
- ion sources**
Development of high current low energy H^+ ion source. (A12). 477739
- ion-atom collisions**
Electron capture to $D_3/sup ts-/$ and $D_3/sup ts0/$ repulsive states by $D_3/sup ts+ /$ in Cs. (A12). 463963
- Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). [Data] 464012
- ion-molecule collisions**
Reactions of ions with atomic and molecular free radicals. Progress report, May 1, 1978-April 30, 1979. (A12; Summaries of research activities at Univ. of Minnesota). 477744
- lande factor**
g factors and related magnetic properties of molecules. Formulation of theory and calculations for $H_2/sup ts+ /$, HD^+ , and $D_2/sup ts+ /$. (A12). 467215
- let**
Theoretical analysis of the LET dependence of transient yields observed in pulse radiolysis with ion beams. (B14, C11). [Data] 472535

- mobility**
Electromigration of hydrogen and deuterium in vanadium and niobium by a resistance method. (B22). 469266
- molecular ions**
g factors and related magnetic properties of molecules. Formulation of theory and calculations for H_2^{+} , $sup\ ts +$, HD^+ , and D_2^{+} . (A12). 467215
- small angle scattering**
Small angle backscattering of hydrogen, deuterium, helium and neon from single and polycrystalline nickel. (A13). [Data] 471472
- spin orientation**
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- DEUTERIUM OXIDE:**
See HEAVY WATER
- DEUTERIUM TARGET:**
alpha reactions
($\alpha, \alpha p$) quasifree proton knockout reaction on 2H , 6Li , and ^{19}F . (A34; 140 MeV). 486429
He-d small angle elastic scattering at 9.0 and 19.8 GeV/c. (A34; $0.0028 < \theta < 0.168$ (GeV/c) 2). [Data] 493355
pd, pt, αd and αt elastic scattering. (A34). 493375
- antiproton reactions**
Double inelastic interactions in anti pd collisions in the 1.6-4.3 GeV/c incident anti p momentum range. (A22). 478533
Resonances in anti pn system from anti pd data. (A21). 483613
- cryogenic fluids**
Cryogenic hydrogen-deuterium target. (E41). 495091
- deuteron reactions**
Cross sections of neutron emission in the p-d and d-d collisions at low energies. (A33; $E_{sub}(p) = 10-100$ MeV, $E_{sub}(d) = 30-200$ MeV). 475756
Four-body model of the four-nucleon system. (A33). 486227
Inelastic intermediate states in proton-deuteron and deuteron-deuteron elastic collisions at the ISR. (A22). 468186
Intense sources of fast neutrons. (E16). 470370
- elastic scattering**
Asymptotic normalization parameter of the triton. (A33). 475732
- electrofission**
Electrodisintegration of deuterium including nucleon detection in coincidence. (A33). 478620
- electron reactions**
Electro- and photodisintegration of deuterium. (A33). 468264
Electron-deuteron tensor polarization and the short range behavior of the deuteron wave function. (A33). 475702
Nucleon structure and nucleon-nucleon interaction. (A33). 468429
Outlook. (A34, A33; planned and recommended experiments and calculations in the field of electron scattering by deuteron, helium 3 and triton). 468559
Parity violation in polarised electron deuteron scattering. (A33). 468368
Process of polarized deuteron spallation by polarized electrons. (A33). 493283
Quasi elastic electron scattering from the deuteron. (A34). [Data] 481592
Quasi elastic electron scattering from the deuteron. (A34). 468554
Study on elastic electron scattering on deuterons at the square momentum transfer of $0.36-0.9$ fm $^{-2}$. (A22, A21). 486113
- fabrication**
Intense sources of fast neutrons. (E16). 470370
New technique for fabricating cryogenic laser-fusion targets using cold-gas jets. (B12). 468772
- hadron reactions**
On inclusive π , N spectra in the hadronic reactions in the deuteron fragmentation region. (A21). 464861
- lithium 6 reactions**
Search for $\alpha\alpha^*$ rotational levels in 6Be . (A34). 468576
- muon reactions**
Coulomb break-up of the deuteron by the positive muon. (A33). 490039
Hard pions and axial meson exchange current effects in negative muon capture in deuterium. (A33). 468333
The influence of the neutron-neutron off-energy-shell interaction on the differential $\mu^- d$ capture rates. (A33). 483803
- n * resonances**
On the structure of the πd amplitude near the ΔN threshold. (A33). 472207
- neutron reactions**
The (n,d) elastic differential cross section at $E=2.48$ and 3.28 MeV. (A34). 483853
 $^2H(n, nn)p$ reaction at 21.5 MeV. (A34). 483928
Calculation of low-energy nd and pd scattering using the N - D method. (A33). 493291
Calculation of nucleon-deuteron inelastic scattering in the approximation of ternary nucleon rescattering. (A33). 493217
Perturbational calculations of n-d breakup for realistic potentials. (A33). 483800
The total neutron cross sections for hydrogen, deuterium and carbon. (A34). [Data] 468505
Tritium production in a sphere of 6LiD irradiated by 14-MeV neutrons. (A33, A31, B25). 468328
Virtual state of the three nucleon system. (A33). 475731
- neutron sources**
Neutron generation with a gas target in the energy range between 7 and 12 MeV. (E16, A34). 470398
- nucleon reactions**
Effects of the repulsive core upon nucleon-deuteron scattering. (A21, A33; Fadeev equations, 14 to 146 MeV, differential cross sections). 460198
Particle dissociation on a composite target. (A21). 489847
- Variable cut-off radius in impulse approximation models. (A33). 464991
- photonuclear reactions**
The $D(\gamma pp)\pi$ reaction for high values of the emitted nucleon momenta. (A34). 481525
Electro- and photodisintegration of deuterium. (A33). 468264
Experimental outlook, mostly photonuclear. (A34; research recommendations on photonuclear reactions for light nuclei). 468583
Neutral pion photoproduction on nuclei near threshold. (A34). 481539
[Data] On the existence of the two-proton resonance. (A33). 493256
Photodisintegration of the deuteron employing a supersoft core potential. (A33). 490094
Photonuclear cross sections for ^{18}O . (A33). 486303
Properties of the charged photopion production operator and the $^2H(\gamma, \pi^+)2n$ cross section. (A33). 490058
Study on pions plus photoproduction on deuterium. (A34, A33). 493406
- pion minus reactions**
Elastic scattering differential cross-section of π^- on deuteron at 47 MeV. (A34). [Data] 481529
Measurement of πd elastic backscattering cross section in the π^- meson impulse range from 0.74 to 1.3 GeV/c. (A22). 464878
- pion plus reactions**
Elastic scattering differential cross-section of π^+ on deuteron at 47 MeV. (A34). [Data] 481529
- pion reactions**
Composite-particle structure of pion-nucleus amplitudes. (A33). 486248
Equilibrium temperature in particle production. (A22). 475676
Nonadiabatic effects in elastic and inelastic scattering of particles on the deuteron. (A33). 486246
On solving the three-particle quasipotential equations for πd scattering. (A33, F51). 490060
Pion absorption by deuterons in field theory. (A33). 486232
Three-body calculation of πd elastic scattering observables at energies up to the (3,3) resonance. (A33). 481486
Three-body calculation of πd elastic scattering observables at energies up to the (3,3) resonance. (A33). [Data] 464990
- proton reactions**
 $^2H(p, \gamma)^3He$ reaction using polarized and unpolarized protons. (A34). 475844
Analyzing power measurements in deuteron-proton elastic scattering. (A34). 483939
Calculation of low-energy nd and pd scattering using the N - D method. (A33). 493291
Calculation of nucleon-deuteron inelastic scattering in the approximation of ternary nucleon rescattering. (A33). 493217
Calculation of polarization parameters in inelastic proton-deuteron scattering. (A33). 493218
Coherent production of two and three pions in pd reactions at 19 GeV/c. (A22). 460224
Cross sections of neutron emission in the p-d and d-d collisions at low energies. (A33; $E_{sub}(p) = 10-100$ MeV, $E_{sub}(d) = 30-200$ MeV). 475756
The determination of the asymptotic normalization of the deuteron D-state by p-d elastic scattering. (A34). 460335
Double interaction mechanism in the $pd \rightarrow pppn$ reaction with the proton produced in the backward hemisphere. (A33). 483771
Form of a right boundary of the proton spectrum from the $D(pp)np$ reaction. (A34). 468491
Inelastic intermediate states in proton-deuteron and deuteron-deuteron elastic collisions at the ISR. (A22). 468186
Light-front wave function of composite system with spin. (A11). 477634
A microscopic model for the $pd \rightarrow \pi n^*$ reaction. (A33). 468321
Momentum spectra of secondary protons from pp, pd and pC collisions at 4.3, 6.3 and 8.9 GeV/c. (A34, A22). 478696
One-nucleon-exchange mechanism for pd scattering in light-front dynamics. (A21). 486069
pd, pt, αd and αt elastic scattering. (A34). 493375
Production of hadrons at large transverse momentum in 200-, 300-, and 400-GeV p-p and p-nucleus collisions. (A22). [Data] 464877
Proton total cross sections on 1H , 2H , 4He , 9Be , C and O in the energy range 180 to 560 MeV. (A34). 468558
Quasielastic and inelastic rescattering as a source of cumulative particle production on a deuteron. (A33, A21). 468283
Rescattering corrections to spin-dependent proton-deuteron total cross sections. (A21). 475631
Rescattering effects in 19 GeV/c pd interactions and search for Δ component in the deuteron. (A22). 489913
Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194
Using elastic pd scattering for study on the nucleon-nucleon force properties. (A33). 462612
- resonance particles**
On the existence of the two-proton resonance. (A33). 493256
- total cross sections**
Rescattering corrections to spin-dependent proton-deuteron total cross sections. (A21). 475631
- van de graaff accelerators**
Neutron generation with a gas target in the energy range between 7 and 12 MeV. (E16, A34). 470398
- wave functions**
Light-front wave function of composite system with spin. (A11). 477634
Variable cut-off radius in impulse approximation models. (A33). 464991

DEUTERIUM TRITIDE:

chemical properties

Cryogenic hydrogen data pertinent to magnetic fusion energy. (B12).
[Data] 490410

infrared spectra

Infrared spectra of liquid and solid DT and T₂. (A12, A14). 471396

physical properties

Cryogenic hydrogen data pertinent to magnetic fusion energy. (B12).
[Data] 490410

DEUTERON BEAMS:

cyclotrons

F-18 cyclotron production methods. (D13). [Data] 494657

plasma focus

Subterrawatt ion beams in plasma focus. (A14). 492752

polarized beams

Acceleration of polarized ions in synchrotrons. (E16, A12). 491682

Polarized particles at Saturne. (E16). 491572

DEUTERON REACTIONS:

High energy (p,p'd) reactions and short-range nucleon-nucleon correlations. (A33). 462614

Neutron energy spectra of d (49) -Be and p (41) -Be neutron radiotherapy sources. (D15). 480298

Resonating group treatment of the nuclear systems: n, d, ³H, ³He, and α + ¹⁶O. (A33; Polarization, differential cross sections, rotational bond structure). [Data] 478654

alpha-transfer reactions

The ⁴⁸Ti(d,⁶Li)⁴⁴Ca reaction at E_{sub}(d)=55 MeV. (A34). 490157

α clustering in ²⁰⁸Pb from (d,⁶Li) at E/sub d/ < 55 MeV. (A34). 486330

Alpha-particle pickup with the (d, ⁶Li) reaction. (A34). [Data] 490264

High resolution studies of (d,⁶Li) reactions on sd-shell nuclei. (A34). 490250

A study of the (d,⁶Li) reaction on Mo and Zr isotopes. (A34). 490230

Unusually strong excitation of the 1.59 MeV 0⁺ state in the ¹⁰⁰Mo(d,⁶Li)⁹⁸Zr reaction. (A34). 483920

angular distribution

The (d,p) reactions below 3.0 MeV. (A34). [Data] 468536

angular momentum transfer

The ¹³C(d,pol), ¹²C and ¹²C(d,pol), ³He)¹²B reactions: j-transfer determination and isospin mixing in ¹²C. (A34). 483856

beryllium 9

Elastic and inelastic scattering of deuterons by ⁹Be in the energy range of 12.17 MeV to 14.43 MeV. (A34). [Data] 475850

binary fission

Kinetic study of binary and ternary fission induced by 2.1 GeV deuterons incident on U, Th, Bi, Pb and Au targets. (A34). 481543

breakup reactions

Absolute cross sections for three-body breakup reactions ⁶Li(d,n ³He)³He and ⁶Li(d,p ³H)³He. (A34). 475815

Charged-particle spectra: 80 MeV deuterons on ²⁷Al and ⁵⁸Ni and 70 MeV deuterons on ⁹⁰Zr, ²⁰⁸Pb, and ²³²Th. (A34). [Data] 465241

Spin dependence of the deuteron-nucleus interaction as affected by breakup. (A33; 13 to 45 MeV, differential cross sections, DWBA, Reid, and optical potentials). 468391

compound-nucleus reactions

d + ⁶Li reactions at low energy. (A33). 486224

Helical cathode proportional chambers with application to the ⁴⁰Ca(d, α)³⁸K reaction at 16 MeV. (A33, E41; Born approximation, compound-nucleus mechanism). 460316

O⁺ + ¹⁺ \rightarrow O⁺ + O⁻ spin-parity configuration via ¹⁶O(d vector, α)¹⁴N reaction. (A34; 5.98 to 7.00 MeV, differential cross sections, vector and tensor analyzing power). [Data] 478713

cross sections

Stripping study in the ¹²C(d,n)¹³N reactions. (A33, A34). 472220

direct reactions

Varied applications of a new maximum-likelihood code with complete covariance capability. (A30, E21; FERRET, for data adjustment). 460247

elastic scattering

Adiabatic treatment of elastic deuteron-nucleus scattering. (A33). 472135

Analyzing power measurements in deuteron-proton elastic scattering. (A34). 483939

Description of low energy deuteron scattering using multishell form factors. (A33). 465054

Deuteron and ³He scattering; discussion on the uniqueness of their optical potentials. (A33, A34). 464974

Four-body model of the four-nucleon system. (A33). 486227

Inelastic intermediate states in proton-deuteron and deuteron-deuteron elastic collisions at the ISR. (A22). 468186

Local and non-local potentials for deuteron elastic scattering. (A33; Central, spin-orbit and spin-radial potentials, folding model, 15 MeV, polarization moments; DDUNC1). 460307

The optical model for elastic scattering of 10 to 15 MeV polarized deuterons from medium-weight nuclei. (A34). 468490

Relevance of the proximity potential to light-ion scattering. (A33). 493303

Spin dependence of the deuteron-nucleus interaction as affected by breakup. (A33; 13 to 45 MeV, differential cross sections, DWBA, Reid, and optical potentials). 468391

A study of the elastic scattering of polarized deuterons from ⁶⁰Ni and ⁹⁰Zr nuclei. (A34). 483850

excitation functions

The (d,p) reactions below 3.0 MeV. (A34). [Data] 468536

form factors

Normalization of the (d,t) reaction with realistic three-body wave function. (A33). 490081

four-nucleon transfer reaction

Four-nucleon pickup from ¹⁴N. (A34). 486433

gev range 10-100

Methodic problems of determination of cross sections in inelastic interactions of relativistic nuclei. (A34). 493330

helium 3

³He D-state effects in (d, ³He) reactions. (A34). 465210

inelastic scattering

Description of low energy deuteron scattering using multishell form factors. (A33). 465054

Methodic problems of determination of cross sections in inelastic interactions of relativistic nuclei. (A34). 493330

isospin

Isospin non-conservation in the ¹⁴N(d, d')¹⁴N reaction. (A34). 483825

neutron flux

Monte Carlo calculation of d-Be neutron yields. (A34). 475793

neutron spectra

Measurements and calculations of neutron spectra from 35 MeV deuterons on thick lithium for the FMIT facility. (A33, A14). 486240

nuclear emulsions

Energy characteristics of g-particles in interactions of relativistic deuterons and α -particles with emulsion nuclei. (A22, A34). 486123

nuclear potential

Electrical optical potential in sub-barrier elastic deuteron scattering. (A33). 493233

nuclear reaction kinetics

On the nuclear reaction theory involving nucleon redistribution. (A33). 493252

one-nucleon transfer reactions

¹⁰⁶ ¹⁰⁸Pd studied via the (d,³He) reaction at E_{sub}(d)=50 MeV. (A34). 490158

Fragmentation of one-nucleon states in ytterbium isotopes. (A33). 460284

Investigation of the deeply bound hole state via the (d, ³He) reaction. (A34). 490228

Levels of ²⁰⁹Po and ²¹¹Po populated in one-neutron stripping and pickup from ²¹⁰Po. (A34). 460323

Measurement of the mean deuteron interaction energy in the ³H(d,n)³He reaction. (A34). 468519

N + d clustering of three-nucleon systems: D-state effects in (d,t) and (d,³He) reactions. (A33). 468401

Strong exhaustion of l_{sub}(9/2) strength by deeply-bound proton-hole states in Pm isotopes. (A34). 478723

Transfer reactions at intermediate energies. (A34). 483933

particle production

Investigation of velocity spectra of singly charged particles from nuclear interactions at high energy. (A34). 493342

Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194

pickup reactions

⁴¹Ca(d,³He)⁴⁰K reaction at 20 MeV. (A34). 490227

α clustering in ²⁰⁸Pb from (d,⁶Li) at E/sub d/ < 55 MeV. (A34). 486330

Alpha-particle pickup with the (d, ⁶Li) reaction. (A34). [Data] 490264

Helical cathode proportional chambers with application to the ⁴⁰Ca(d, α)³⁸K reaction at 16 MeV. (A33, E41; Born approximation, compound-nucleus mechanism). 460316

High-spin levels in ³⁹K excited by the ⁴¹Ca(d, α) reaction. (A34). 475848

Level structure of ¹⁷⁵Yb and ¹⁷⁷Yb via the /sup 174,176/Yb(d,p) /sup 175,177/Yb and ¹⁷⁶Yb(d,t)¹⁷⁵Yb reactions. (A34). 475851

Nuclear lifetimes in manganese-52. (A34; U.8 and 5.0 MeV, cross sections, reduced transition probabilities). 468468

O⁺ + ¹⁺ \rightarrow O⁺ + O⁻ spin-parity configuration via ¹⁶O(d vector, α)¹⁴N reaction. (A34; 5.98 to 7.00 MeV, differential cross sections, vector and tensor analyzing power). [Data] 478713

Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343

Separation energies between the 2s/sub 1/2/-¹ and 1d/sub 3/2/-¹ hole states in the odd potassium isotopes. (A33). 486275

Spins and parities of low-lying states in ⁷⁷Kr from the ⁷⁸Kr(d vector, t)⁷⁷Kr reaction. (A34; differential cross sections, 15.95 MeV, cross sections, vector analyzing powers). [Data] 472241

Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324

plasma

Thermonuclear reaction rates in a deuterium-tritium plasma. (A34, A14). [Data] 478701

polarization-asymmetry ratio

Analyzing power measurements in deuteron-proton elastic scattering. (A34). 483939

Investigation of the vector analyzing power of the ²⁶Mg(d vector,p)²⁷Mg and ²⁶Mg(d vector,d)²⁶Mg reactions in the 1.8-3.0 MeV energy range. (A34). 493456

Search for A_{sub}(y)=1 and A_{sub}(yy)=1 points in the ⁶Li(d,pol), α ³He reaction. (A34). 468550

Study on the vector analyzing capability of the ²³Na(d vector,p)²⁴Na and ²³Na(d vector, d)²³Na in the 1.8-3.0 MeV energy range. (A34). 493457

polarized beams

The optical model for elastic scattering of 10 to 15 MeV polarized deuterons from medium-weight nuclei. (A34). 468490

Spins and parities of low-lying states in ⁷⁷Kr from the ⁷⁸Kr(d(pol),t)⁷⁷Kr reaction. (A34). 483852

A study of the elastic scattering of polarized deuterons from ⁶⁰Ni and ⁹⁰Zr nuclei. (A34). 483850

- precompound-nucleus emission**
 Charged-particle spectra: 80 MeV deuterons on ^{27}Al and ^{58}Ni and 70 MeV deuterons on ^{90}Zr , ^{208}Pb , and ^{232}Th . (A34). [Data] 465241
- quasi-free reactions**
 Quadrupole moment of the 200-ns fission isomer in ^{238}U . (A34). 490249
- scattering**
 Propagation of a deuteron in nuclear matter and the spin dependence of the deuteron optical potential. (A33). 465002
- spallation**
 Experimental results on fragmentation of carbon nucleus by relativistic deuterons and alpha particles. (A34). 465096
 On comparison with experiment of an automodel law in the process of disintegration of relativistic deuteron. (A21, A22). 464738
- stripping**
 Analysis of the $^{14}\text{N}(\text{d,p})^{15}\text{N}$ stripping. (A33). 483757
 $\text{d} + {}^6\text{Li}$ reactions at low energy. (A33). 486224
 Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
 Electric monopole transitions and excited 0^+ states in ^{250}Cf . (A34). 475786
 Evidence for negative parity for the 7064-keV level in ^{208}Pb . (A34). [Data] 465149
 Four-body model of the four-nucleon system. (A33). 486227
 Level structure of ^{175}Yb and ^{177}Yb via the $^{\text{sup}}174,176/\text{Yb}(\text{d,p})^{\text{sup}}175,177/\text{Yb}$ and $^{176}\text{Yb}(\text{d,t})^{175}\text{Yb}$ reactions. (A34). 475851
 Nonstatistical effects in neutron capture: a review of recent experiments. (A34; Strengths, valence, doorway states). 460348
 Simple unitary estimate for multistep processes. (A33). 475712
 Stripping study in the $^{12}\text{C}(\text{d,n})^{13}\text{N}$ reactions. (A33, A34). 472220
 Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
 Study of particle unbound states in ^{25}Mg and ^{25}Al nuclei by the reaction $^{24}\text{Mg}(\text{d,pn})$. (A34). [Data] 462628
 Study of the $^{76,78,80,82}\text{Se}(\text{d,p})^{77,79,81,83}\text{Se}$ reactions using polarized deuterons. (A34; Differential cross sections, vector analyzing power, 12.5 MeV, J, π , spectroscopic factors, sum rule). [Data] 481582
 $1\text{h}/\text{sub } 11/2^-$ states in $^{\text{sup}}93.95/\text{Zr}$. (A33). 490044
- superfluid model**
 Fragmentation of one-nucleon states in ytterbium isotopes. (A33). 460284
- ternary fission**
 Kinetic study of binary and ternary fission induced by 2.1 GeV deuterons incident on U, Th, Bi, Pb and Au targets. (A34). 481543
- transfer reactions**
 The ($\text{d}, {}^6\text{Li}$) reaction on nuclei of the Op and 1s Od-shell. (A34). 465200
 Investigation of (d, α) reactions with vector- and tensor polarized deuterons. (A34). 465167
- two-dimensional calculations**
 Two-dimensional effects in the ion-beam wet-wood-burner. (A33). 464960
- wave functions**
 On a new method of the account of a wave function for the (d,p) reaction entrance channel. (A33; A=18-208). 493318
- DEUTERON TARGET:**
 See DEUTERIUM TARGET
- DEUTERONS:**
 See also ANTIDEUTERONS
- absorption**
 Diagnostic neutron spectra from deuterons on several materials. (A32, A34; 2.5 to 3.5 MeV). [Data] 472125
- activation analysis**
 The determination of carbon in aluminium by deuteron activation analysis. (B11). 483968
- angular distribution**
 Experimental study of the ^{109}In nuclear states. (A34). 472304
- beta decay**
 Fission antineutrino-induced reactions. (A34). [Data] 468477
- binding energy**
 New measurement of deuteron binding energy. (A34). [Data] 478781
 Tjon line in few-body systems. (A33). 490091
- bremsstrahlung**
 Deuteron break-up by positive muon. (A20). 483611
- cosmic ray flux**
 Sea-level flux determination for heavy cosmic-ray particles. (A15). [Data] 462414
- d states**
 The determination of the asymptotic normalization of the deuteron D-state by p-d elastic scattering. (A34). 460335
 Measurability of the deuteron D state probability. (A33). 490062
 Problems in determining nuclear bound state wave functions. (A33). 478598
- dosimetry**
 Biophysical studies with spatially correlated ions. 2. Multiple scattering, experimental facility, and dosimetry. (C11; D_2^+ molecular ions). [Data] 490910
- elastic scattering**
 Polarization in proton-deuteron scattering at 65 MeV. (A34). [Data] 490184
- electromagnetic form factors**
 Deuteron electromagnetic form factor: Data analysis and asymptotic behavior. (A21, A11). 489851
 A relativistic description of the electromagnetic form factor of the deuteron. (A21). 478441
- electroproduction**
 Quasi-elastic knock-out of compound particles by high-energy electrons. (A33). 475762
- fission**
 Application of the distorted wave method to the analysis of the deuteron disintegration reaction. (A33). 493317
- ion pairs**
 Biophysical studies with spatially correlated ions. 1. Background and theoretical considerations. (C11; Exposure of cultured V79 hamster cells to D_2^+ molecular ions). [Data] 490931
 Biophysical studies with spatially correlated ions. 2. Multiple scattering, experimental facility, and dosimetry. (C11; D_2^+ molecular ions). [Data] 490910
 Biophysical studies with spatially correlated ions. 3. Cell survival studies using diatomic deuterium. (C11; Exposure of cultured V79 hamster cells to D_2^+ molecular ions). [Data] 490906
- magnetic fields**
 Wave equation for deuteron. (A11). 467111
- magnetic moments**
 Velocity dependent terms of the modified nucleon-nucleon potential and magnetic moment of the deuteron. (A33). 468412
- nuclear electric moments**
 On the electric quadrupole moment operator of the deuteron. (A33). 462604
- nuclear magnetic moments**
 The magnetic moment of the deuteron. (A33). 478648
- nuclear radii**
 Deuteron electromagnetic form factor: Data analysis and asymptotic behavior. (A21, A11). 489851
- nuclear reaction yield**
 Approach to equilibrium based on microscopic models of nuclear collisions. (A33, A22; Yield ratios, differential cross sections). 468330
 Emission of low energy charged particles following nuclear pion capture. (A34; Rates). 460360
 Light fragment production and associated multiplicities from collisions of 1.85 GeV/nucleon ^{40}Ar . (A34, A22; Differential cross sections, reaction mechanisms). 468451
 Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200
- nuclear structure**
 Few-body systems and electromagnetic interactions. (A33). 468380
- particle production**
 Back-angle production of light ions from 720-MeV α -nucleus collisions. (A34). 475852
- polarized products**
 Polarization of the deuteron in the reaction $\text{p}+\text{p} \rightarrow \text{d}+\pi^+$. (A33). 483786
- relativistic range**
 Relativistic description of the deuteron. (A33). 468309
- secondary emission detectors**
 Detection of minimum ionizing particles through secondary electron emission. (E41). 474021
- spallation**
 On the account of finite range of nuclear forces between neutrons and protons in the problem of deuteron spallation by the Coulomb nuclear field. (A33). 493222
- wave functions**
 Electron-deuteron tensor polarization and the short range behavior of the deuteron wave function. (A33). 475702
- weak particle decay**
 Fission antineutrino-induced reactions. (A34). [Data] 468477
- wigner force**
 Gravitational, electromagnetic, and nuclear theory. (A11). 485271
- DEVELOPERS:**
 See also PYROCATECHOL; RESORCINOL
- nickel chlorides**
 Factors affecting the nickel yield of an irradiated sodium hypophosphite-ammoniacal nickel system and its potential use as a radiographic media. (B14, E41). 472545
- DEVELOPING COUNTRIES:**
 See also BANGLADESH; BOTSWANA; BRAZIL; CHILE; CZECHOSLOVAKIA; ECUADOR; EGYPTIAN ARAB REPUBLIC; GREECE; HUNGARY; INDIA; INDONESIA; IRAN; ISRAEL; MOROCCO; NIGERIA; PAKISTAN; PERU; PHILIPPINES; REPUBLIC OF KOREA; SPAIN; YUGOSLAVIA; ZAMBIA
- economic development**
 On the relationship between GDP and energy consumption. (F11). [Data] 471112
- energy sources**
 Bypassing oil and the atom. (F11). 488399
- nuclear engineering**
 Experience in reactor research and development programs as educational system for thermohydraulic engineering. (F61). 466989
- nuclear power**
 Nuclear safety in the Third World. (F11). 480908
- nuclear power plants**
 Nuclear power-plant safety in developing countries. (C52). 476710
- pollution**
 Labelled compounds for agrochemical residue studies in developing countries. (C45). 463341
- research programs**
 Advanced research technology transfer. (F61). 466980
 Criteria for the choice of research programs in nuclear centers of developing countries. (F61). 463857
- technology transfer**
 Criteria for the choice of research programs in nuclear centers of developing countries. (F61). 463857

- uranium
Uranium exploration in developing countries. Facts and trends. (B31). 484334
- DEWAR FLASKS:**
blowdown
Safety aspects of LHE cryostats and LHE transport containers. (E12, C50). 484831
evaporation
Heat analysis and reduction of evaporation rate of liquid helium dewar. (E12). [Data] 463530
heat transfer
Heat analysis and reduction of evaporation rate from a liquid helium dewar. (E12). 491518
safety engineering
Safety aspects of LHE cryostats and LHE transport containers. (E12, C50). 484831
telescopes
Design of a superfluid helium dewar for the IRAS telescope. (E12). 480372
thermal analysis
Heat analysis and reduction of evaporation rate of liquid helium dewar. (E12). [Data] 463530
thermal shields
Energy and economical considerations concerning the vapour cooled shield theory about the system liquefier-cryogenic vessel. (E12). 491523
- DEXTRAN:**
trapped electrons
Radiation yields of trapped electrons in polydextran gels γ -irradiated at 77 K. (B14). 493813
- DFA:**
See DEFEROXAMINE
- DFR REACTOR:**
Descriptive pamphlet. (F61). 482975
fuel cycle
Experience from a collocated fast reactor fuel cycle. (E35). 463666
reactor components
UK fast reactor components. Sodium removal decontamination and requalification. (E35). 463671
- DFR-350 REACTOR:**
See DFR REACTOR
- DI-2-ETHYLHEXYLPHOSPHORIC ACID:**
See HDEHP
- DIABETES MELLITUS:**
feet
Intraarterial tolazoline in angiography of the foot. (C61). 480239
insulin
Autoimmunity in diabetics induced by hormonal contaminants of insulin. (C62). [Data] 463457
- DIABLO CANYON-1 REACTOR:**
seismic effects
Application of probabilistic techniques to seismic risk analysis on the Diablo Canyon Plant. (C52, E32). 487425
Diablo Canyon seismic response utilizing logic models to determine plant response to external events. (C52, E32). 487519
- DIAGNOSIS:**
adenomas
Quantitative suppression scintigraphy for diagnosis of autonomously functioning thyroid adenoma. (C62). 473401
angiomas
Sonography, computer tomography and angiography in the diagnosis of an haemangioma of the renal pelvis. (C61). 476779
biological functions
The clinical importance of internal myocardial scintiscanning. (C62). 476806
Evaluation of hepato-biliary functional scintigraphy with sup(99m)Tc diethyle-IDA. (C62). 482339
Functional diagnoses of the heart using quantitative sequential scintiscanning. (C62). 476785
Hepatic reticuloendothelial function in the sub-totally nephrectomized rat model of chronic uremia. (C21, C62). 487313
Hepatobiliary functional scintigraphy by means of sup(99m)Tc-labelled IDA derivatives in diseases of liver and biliary tract. (C62). 487681
Liver perfusion scintigraphy after experimental ligation of hepatic artery or portal vein of the dog. (C45, C62). 484627
Measurement by means of sup(99m)Tc-perchnetate of the function of salivary glands before and after stimulation with pilocarpine in cases of sicca-syndrome of the parotid glands. (C62, C15). 470100
Non-invasive detection of regional left ventricular functional disturbances in patients with coronary diseases using radionuclide ventriculography. (C62). 476808
Regional wall movement of the left ventricle in coronary heart diseases. (C62). 476807
Reliability and limitations of total and divided renal clearances as determined with a partially shielded whole-body counter. (C62). 470104
Roentgenmorphological muscle changes in anterior horn cell lesions. (C62). 470146
X-ray orbiroscope physiological examination of the upper respiratory tract in newborn and infants using. (C61). 482301
biopsy
Needle aspiration biopsy in the diagnosis of lytic bone lesions in histiocytosis X, Ewing's sarcoma and neuroblastoma. (C61). 461397
blood flow
Venal effects of Daflon. (C45, C62). 484633
bone joints
Subacute osteomyelitis of the hip joint in children. (C61). 461392
carcinomas
Computer tomographic differential diagnosis of thyroid diseases with special reference to scintigraphic cold spots. (C61, C62). 470055
cardiovascular diseases
Computer tomographic demonstration of the popliteal artery entrapment syndrome. (C61). 476758
Computer tomography in the diagnosis of aortic aneurysms. (C61). 470023
Computer-cardio-tomography in idiopathic hypertrophic subaortic stenosis. (C61). 476768
Radionuclide phlebography of the lower extremities. (C62). 476798
Radiopharmaceutical of cardiovascular nuclear medicine. (C62). 476789
Reversible myocardial ischaemia or irreversible myocardial fibrosis. (C62). 476799
Typical presentation of sequential scintigraphy images in the diagnosis of cyanotic heart disease in the newborn, using a computer-assisted imaging technique. (C62). 491338
computer codes
Application of computer to calculation of central hemodynamic parameters. (C62). 494522
data acquisition systems
Acquisition and processing of multiple functional investigations in cardiology. (C31). 473112
data processing
Automatic system for data processing in radioisotope investigations of hemodynamics. (C62). 494554
Diagnostic and prognostic significance of radionuclide investigations with computer data processing in urology. (C62). 494535
Radioisotope investigations of blood circulation system using computer. (C62). 494557
System of mathematical processing of radiodiagnostic investigation data. (C62). 494520
digestive system diseases
Improvement of oral cholecystography and cholangiography with Ceruletide. (C61). 473388
Technique and management of double contrast studies in the intestinal tract. (C61). 484715
diseases
Computerized tomography of the liver. (C61). 476777
efficiency
Efficiency estimation of radiodiagnosis in lymphogranulomatosis therapy. (C63, C62). 494579
emboli
Present methods of diagnosing deep venal thromboses and lung embolism. (C61, C62). 476761
endocrine diseases
Early recognition of endocrine calcification in hypoparathyroidism. (C61). 487657
errors
V/Q mismatches unassociated with pulmonary embolism: case report and review of the literature. (C62; ^{133}Xe ventilation scans and $^{99\text{m}}\text{Tc}$ -MAA perfusion scans). 470130
fluoroscopy
Needle aspiration biopsy in the diagnosis of lytic bone lesions in histiocytosis X, Ewing's sarcoma and neuroblastoma. (C61). 461397
hemorrhage
Whole body ^{59}Fe -elimination rates and corresponding blood losses in patients with factitious anemia induced by self-blood letting. (C21, C62). 473059
hyperthyroidism
Clinical results of thyroid scintigraphy and iodine estimations using a fluorescent technique. (C62). 482393
inflammation
Angiography in synovitis of the knee. (C62). 466413
information
Automatic analysis of radioisotope investigations results. (C61, F51). 494517
System analysis of information structure of radiodiagnostic laboratory. (C62). 494521
injuries
Brain injuries in the computed tomograph. (C61). 494505
The diagnosis of rhinorrhoea with the ^{131}I -hippuran swab test. (C62, C61). 476801
Encyclopedia of medical radiology. Vol. 10. (C61). 484707
Radiology in chest trauma. (C61). 482324
Radiology of joint trauma. (C61). 482302
intestinal absorption
A simplified method for the determination of intestinal calcium absorption. (C45, C62, C21). 494379
malformations
Angiography and computed tomography in the evaluation of cerebral venous malformations. (C61). 487661
mathematical models
Possibilities of mathematical methods in the interpretation of liver radionuclide investigation results. (C62). 494555
metastases
Computer tomographic demonstration of lymph node metastases from malignant testicular tumours. (C61). 482299
The diagnosis of liver metastases. (C62). 470157
Lymph node metastases - diagnosis by lymphography and CT. (C62). 470096
The value of whole body bone scan in the pre-operative assessment in carcinoma of the breast. (C62). 487692
myocardial infarction
Mobile gamma cameras and sup(99m)Tc-labelled phosphates in acute myocardial infarction. (C62). 476803

- Radioimmunoassay for human myoglobin: methodology and diagnostic significance in myocardial infarction. (C62). 482371
- Scintiscanning of acute myocardial infarction using sup(99m)Tc methylen diphosphonate. (C62). 476790
- neoplasms**
- Diagnosis of tumors of the parotid gland by sialography and sialoscintigraphy. (C62). 470131
- The diagnostic significance of microcalcifications in testicular tumors. (C61, C55). 473335
- The diagnostic value of angiography for the assessment of bone tumours in paediatric practice. (C61). 470065
- Needle biopsy with the aid of X-ray diagnosis. (C61). 473345
- Radiodiagnosis of Cerebellopontine-angle tumors. (C61, C62). 484716
- Radiological diagnosis of adrenal tumours. (C61, C62, C55). 466390
- The urinary bladder 'cut in half'. (C61). 482312
- nervous system diseases**
- Combined radionuclide circulation and static imaging of the brain. (C62, C61). 487701
- Scintigraphic examinations in neuroradiology. (C62, C61). 482357
- Sequential brain scintiscanning. (C62, C55). 466427
- The significance of cranial computerized tomography for diagnosis and therapy of inflammatory diseases of the brain and meninges in children. (C61). 487664
- optimization**
- Criteria for quality estimation of gamma-topographic investigations. (C62). 494528
- Optimum configuration of the system for radiodiagnostic data acquisition and processing and main algorithms. (C62). 494526
- osteomyelitis**
- Subacute osteomyelitis of the hip joint in children. (C61). 461392
- pathological changes**
- 'Polycystic disease': Evaluation of the value of nuclear medicine. (C61). 470034
- The accuracy of the double contrast technique in the detection of small lesions of the colon. (C61). 482309
- Computer tomography of the cervical spinal canal following intrathecal enhancement: Cervical CT myelography. (C61). 470061
- Correlation between radiological, scintigraphic and histological changes in bone in rabbits following irradiation with single and fractionated doses. (C14, C61, C62). 469631
- CT scanning in cystic liver changes. (C61). 491296
- Diagnosis of a Meckel's diverticulum. (C61, C62). 466374
- Differential diagnosis of radiological areas of increased translucence in the infant skeleton. (C61, C62). 466375
- The importance of scintimetry in the differential diagnosis of roentgenological areas of increased 'translucence' in the skeleton of children. (C63, C61). 473500
- Skeletal scintigraphy in neuroradiological diagnostics. (C61). 473399
- pregnancy**
- Clinical experience with an HCG-radioreceptor-assay. (C62). 484718
- radiation hazards**
- Reduction of radiation exposure of population from radiodiagnostic techniques. (C55). 494471
- radioimmunoassay**
- Radioimmunoassay. (C62, C45). 482359
- radioisotopes**
- Experimental estimation of radionuclide compounds for developing osteotropic diagnostic drugs. (C62). 482333
- respiratory system diseases**
- The basis of quantitative pulmonary computer tomography. (C61). 470026
- The role of the native X-ray in the diagnosis and judgment of pulmonary stenosis with intact ventricular septum. (C61). 476776
- rheumatic diseases**
- Early diagnostic imaging of rheumatoid arthritis (RA). (C61). 470068
- sarcomas**
- Myocardial scintigraphy with ²⁰¹Tl in angiosarcoma of the heart. (C62). 484719
- scintiscanning**
- Nuclear medicine: confirmation of cerebral death. (C62; use of technetium-99m in scintiscanning). 461399
- sense organs diseases**
- The use of computerized axial X-ray-tomography (EMI-scan) in ophthalmology. (C61, C55). 487659
- skeletal diseases**
- Computed tomography of the hip joint. (C61, C55). 466379
- Computer tomography of the sacroiliac joints. (C61). 482291
- Possibilities and limits of skeleton scintiscanning. (C62; Emphasis on the question of body burden). 466399
- A technique for reproducible roentgenprograms of the intercondylar sulcus for the study of the femoropatellar. (C61). 484709
- The value of traction during roentgenography of the wrist and metacarpophalangeal joints. (C61). 487671
- X-ray diagnosis of retropatellar diseases. (C61). 491295
- thrombosis**
- Hepatic and portal vein thrombosis diagnosed by transhepatic portography. (C61). 482284
- Present methods of diagnosing deep venal thromboses and lung embolism. (C61, C62). 476761
- tropical medicine**
- A radiocolloid study of the reticulo-endothelial system in tropical diseases. (C62). 491315
- urogenital system diseases**
- The application of a radionuclide technique for uroflowmetry and determination of residual urine in gynecology. (C62). 473447
- Clinical studies using radiocolloid in chyluria. (C62, C21). 470119
- The diagnostic value of double-contrast-technique cystography in the evaluation of benign and malignant lesions of the urinary bladder. (C61, C55). 484701
- whole-body counters**
- Optimization in the development of whole-body counter. (C55, C62). 494484
- DIAGNOSTIC TECHNIQUES:**
- See also *BIOMEDICAL RADIOGRAPHY; RADIOGRAPHY; CAT SCANNING; FLUOROSCOPY; OSTEODENSITOMETRY; PHOTON TRANSMISSION SCANNING; RADIOCARDIOGRAPHY; SCINTISCANNING*
- International conference on signals and images in medicine and biology (BIOSIGMA 78), Paris, 24-28 April 1978. (C31). 469818
- International conference on signals and images in medicine and biology (BIOSIGMA 78), Paris, 24-28 April 1978. (C31). 469817
- Nuclear medicine, 1978. (C62, C61). 473404
- accuracy**
- A [³H]-thymidine paper strip method for stimulation of lymphocytes. 1. (C62). 470158
- allergy**
- The role of RAST in allergy diagnosis. (C62). 476797
- beam optics**
- Arrangement to determine the radiation absorption in a plane of a body. (C61). 482323
- bone joints**
- Comparative study of a therapeutic program of goldsalts v.s. D-Penicillamin controlled by scintigraphic, clinical and laboratory dates in rheumatoid arthritis. (C62). 466409
- brain**
- Isotope studies in brain diseases. (C31). 461133
- calcium**
- Use of a Faxitron X-ray cabinet for the rapid detection of the end-point of decalcification. (C61, E41). 480199
- comparative evaluations**
- Bone scintigraphy in renal osteodystrophy. (C62, C31; /sup 99m/Tc-HEDP). 470085
- Bone scintiscanning significance in breast cancer propaedeutics. (C62). 482329
- Comparative results of sup(99m)Tc-pertechnetate scintigraphy and computerized tomography after contrast injection in cerebral pathology. (C61). 473366
- Comparison of cerebrospinal fluid dynamics studied by computed tomography (CT) and radioisotope (RI) cisternography. (C61, C62). 473394
- Comparison of computer tomography and other imaging modalities in the evaluation of musculoskeletal tumors. (C62, C61, C60; ⁶⁷Ga-citrate and /sup 99m/Tc-pyrophosphate). 487711
- Comparison of dosimetry and image quality in computed and conventional tomography. (C61, C15, D15). 487667
- Computed tomography and ⁶⁷Ga citrate radionuclide imaging for evaluating suspected abdominal abscess. (C62, C61). 473456
- Contrast enhanced CT scan and radionuclide brain scan in supratentorial gliomas. (C62, C61, C21; /sup 99m/Tc-pertechnetate). 473409
- Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
- Gated and cinematic perfusion lung imaging in dogs with experimental pulmonary embolism. (C62; /sup 99m/Tc-macroaggregated albumin and -microsphere scanning). 487673
- Magnification mammography: a low-dose technique. (C15, C61). 490981
- New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99m/Tc). 473442
- Relative carcinogenic effects of different mammography techniques. (C15, D15). 487265
- Splenic abscess: comparison of four imaging methods. (C62, C61; Scintiscanning; CAT Scanning; arteriography; ultrasonography). 473432
- Transmission computed tomographic diagnosis of experimentally produced acute pulmonary vascular occlusion in the dog. (C62, C61; Comparison with radiography and scintiscanning). 491326
- Visualization of alcohol-induced rhabdomyolysis: a correlative radiotracer, histochemical, and electron-microscopic study. (C62; /sup 99m/Tc-HEDP (a diphosphonate)). 473477
- cost benefit analysis**
- Technology in hospitals: medical advances and their diffusion. Final report. (C62, C61, C63, C64). 480272
- endocrine diseases**
- Nuclear, radiographic, and bodyplethysmographic studies on the problem of tracheal constriction in struma patients. (C61, C62). 473334
- hepatitis**
- Application of human erythrocytes to a radioimmune assay of immune complexes in serum. (C45; Lupus erythematosus, type B hepatitis). 487382
- histology**
- Histiocytosis X. II. (C63). 461427
- Prognostic significance of histologic subdivision of Hodgkin's disease nodular sclerosis. (C63). 461425
- holography**
- Turbulent interaction fronts in counterstreaming laser-produced plasma studies. (A14). 467595
- image intensifiers**
- Method to produce a body tomogram from the adsorption distribution of ionizing radiation according to the convolution kernel and equipment to carry out the method. (C61, E17). 484708
- X-ray diagnostic installation with an image intensifier TV chain and a dose rate control device. (C45). 461153

- iodine 123**
Limits of dose reduction in I^{123} iodide diagnoses of the thyroid. (C62, C55). 461411
- iodine 131**
Radionuclide diagnoses of the thyroid - indications and diagnostic value. (C62). 461407
- iron**
Nuclear resonant scattering of gamma rays - a new technique for in vivo measurement of body iron stores. (C61, B11). 491293
- iron 59**
The diagnostic value of radioiron absorption and serum ferritin in cases of iron deficiency and excess iron. (C62). 470105
- labelled compounds**
Possibilities of medical isotope diagnostics with U-103 cyclotron. (D13, F61). 494659
- labelling**
Radioactively labelled orgotein. (B13, C62). 468911
- lungs**
Radiological features of pulmonary oedema. (C61). 482288
- lupus**
Application of human erythrocytes to a radioimmune assay of immune complexes in serum. (C45; Lupus erythematosus, type B hepatitis). 487382
- nuclear medicine**
State and prospects for developing domestic radiodiagnostic techniques. (C61, C62). 482317
- optical systems**
Evaluation of a moire imaging system. (C63). 473526
- pathological changes**
CT guided percutaneous needle aspiration biopsy. (C61). 473396
- proteins**
Radioactively labelled orgotein. (B13, C62). 468911
- radiation doses**
Patient exposure in X-ray diagnostic. (D15). 466464
- Vectorial and plane energy fluences - useful concepts in radiation physics. (C62). 491310**
- radiation protection**
Radiation burdens in some radiopaque methods of investigation. (C55). 480191
- radiology**
Radiological features of pulmonary oedema. (C61). 482288
The recognition of lesions on chest radiographs. (C61). 482287
- resonance scattering**
Nuclear resonant scattering of gamma rays - a new technique for in vivo measurement of body iron stores. (C61, B11). 491293
- schlieren method**
Turbulent interaction fronts in counterstreaming laser-produced plasma studies. (A14). 467595
- sensitivity**
Radionuclide venography and lung scanning: concise communication. (C62; /sup 99m/Tc-serum albumin microsphere venography and ^{133}Xe ventilation scintiscanning). 473400
- skeletal diseases**
Histiocytosis X. II. (C63). 461427
- specificity**
Radionuclide venography and lung scanning: concise communication. (C62; /sup 99m/Tc-serum albumin microsphere venography and ^{133}Xe ventilation scintiscanning). 473400
- tracer techniques**
Validation of the calculation of the renal impulse response function. An analysis of errors and systematic biases. (C31). 473119
- x radiation**
H and D curves of screen-film systems: factors affecting their dependence on x-ray energy. (C53). 469985
- DIAGRAMS:**
(Never to be used for data flagging. Only to be used for charts, nomograms, technical drawings and other diagrams but not for graphs.)
See also *ELECTROCARDIOGRAMS; FEYNMAN DIAGRAM; HERTZSPRUNG-RUSSELL DIAGRAM; OPTICAL DEPTH CURVE; PHASE DIAGRAMS*
- radiation hazards**
A brief history of a '20th century danger sign'. (C53). 491216
- DIAL PAINTERS:**
delayed radiation effects
Survival times of women radium dial workers first exposed before 1930. (C15, C21). [Data] 479929
- radiation hazards**
Dose-response relationships for female radium dial workers. (C21). 461104
- survival time**
Survival times of women radium dial workers first exposed before 1930. (C21). 479962
- DIALYSIS:**
biomedical radiography
Peritoneal cannulography. (C61). 473397
- DIAMAGNETISM:**
electronic structure
Excitonic superconductivity. (A17). 471945
- fermi gas**
On some boundary value problems in quantum statistical mechanics. (A11). 485268
- superconductivity**
Excitonic superconductivity. (A17). 471945
- DIAMINOCAPROIC ACID:**
See *LYSINE*
- DIAMOND COUNTERS:**
See *CRYSTAL COUNTERS*
- DIAMONDS:**
crystal counters
Hole trapping levels in natural diamond nuclear detectors. (E41, A13). 492057
- crystal defects**
A gem carbonaceous. (B12, B11; The physics of diamond). 481689
- electric conductivity**
Hole trapping levels in natural diamond nuclear detectors. (E41, A13). 492057
Thermostimulated conductivity of synthetic semiconductor diamonds doped with boron during synthesis. (A13). 474870
Volt-ampere characteristics of synthetic semiconductor diamonds doped with boron during synthesis. (A13). 474717
- electron channeling**
Radiation of channeled 800 MeV electrons in diamond crystals. (A13). 474799
- electron spin resonance**
Spectral and orientational characteristics of 800 MeV electron radiation in axial channeling in a diamond crystal. (A13). 492713
- ESR in type-IIa diamonds irradiated with electrons below 12 K. (B25). 494145**
- electronic structure**
Boron concentration and impurity-to-band activation energy in diamond. (B12). 475928
- fracture properties**
Method for strengthening diamond by bombardment with ions. (B25). 472768
- hall effect**
Photo-Hall effect measurements in irradiated diamond. (B25). 487018
- oxidation**
Investigation into catalytic oxidation of diamond by carbon dioxide and water vapor in the presence of alkali melts-solutions of alkaline earth metal oxides. (B12). 468782
- physical properties**
A gem carbonaceous. (B12, B11; The physics of diamond). 481689
- physical radiation effects**
ESR in type-IIa diamonds irradiated with electrons below 12 K. (B25). 494145
High-temperature annealing of electron-irradiated type-I diamond. (B25). 494108
Method for strengthening diamond by bombardment with ions. (B25). 472768
Optical studies of the 2.367 eV vibronic absorption system in irradiated type Ib diamond. (B25). 494109
Photo-Hall effect measurements in irradiated diamond. (B25). 487018
Study of defects in antimony implanted diamond. (B25, A13). 494170
- point defects**
Defects in diamond. (B25). 494172
- radiation detectors**
Gamma ray dose-rate measurement using a diamond radiation detector. (E41). 470903
- vibrational states**
Optical studies of the 2.367 eV vibronic absorption system in irradiated type Ib diamond. (B25). 494109
- x-ray diffraction**
Diamond identification. (B11). 493515
- DIAPHRAGMS (THERMONUCL. DEVICE:**
See *LIMITERS*
- DIARRHEA:**
radiation effects
Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998
Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- DIAZO COMPOUNDS:**
chemical reaction kinetics
Effect of protonation of nitrogen-containing organic molecules on the reactivity toward positronium. (B13). [Data] 472484
- DIBORANE:**
See *BORANES*
- DICARBOXYLIC ACIDS:**
See also *MALEIC ACID; MALONIC ACID; OXALIC ACID; PHTHALIC ACID; TEREPHTHALIC ACID*
- DICENTRIC CHROMOSOMES:**
genetic radiation effects
Sensitivity of human peripheral lymphocyte chromosomes to various X-ray doses and subsequent storage in Plexiglass or glass containers. (C11). 494264
- low dose irradiation**
Calculation of the dose-rate dependence of the dicentric yield after $\text{Co } \gamma$ -irradiation of human lymphocytes. (C11). [Data] 463036
- DICENTRICS:**
See *DICENTRIC CHROMOSOMES*
- DICHLORODIETHYLAMINE:**
See *NITROGEN MUSTARD*
- DICHLORODIPHENYLTRICHLOROETHAN:**
See *DDT*
- DICHROISM:**
chromatin
Changes in the circular dichroic spectrum of calf thymus solubilized chromatin caused by ultraviolet irradiation. (C11). 476530

DIDO REACTOR:

neutron diffusion equation
Three-dimensional SNAP diffusion theory calculations for the DIDO research reactor including up-scattering. (E21). 482662

DIELECTRIC CONSTANT:

See *PERMITTIVITY*

DIELECTRIC MATERIALS:

See also *ELECTRETS*; *FERROELECTRIC MATERIALS*

breakdown
Microbreakdowns (partial discharges). Microphonics. Characteristics - Recommendations on the design and use of the equipment - Test methods. Nuclear electronics equipment for control and monitoring panel. (E41). 492061

chemical reactions
Chemical reduction of refractory oxides by atomic hydrogen. (B15, A14). 460614

electric cables
Ionizing radiation in cable and rubber industries. (D23). 494681

electric conductivity
Transport processes in inorganic dielectrics. (A13). 485601

fluids
Comments on the theory of dipolar fluids. (A11). 467114

fluorescence
Hydromagnetic interaction in a fluid dielectric. (A15). 489418

fluorescent and Raman scattering by molecules embedded in small particles: Magnetic dipole transitions. (B24). 486983
Raman and fluorescent scattering by molecules embedded in spheres with radii up to several multiples of the wavelength. (A11). 477636

gravitational fields
Inertial force fields external to and across the electrostriction field of an excited dielectric. (A15). 471812

impurities
Structural, dynamical and transport properties of hydrogen in insulating materials. (B23, B11). 494060

magnetohydrodynamics
Hydromagnetic interaction in a fluid dielectric. (A15). 489418

microstructure
Structural, dynamical and transport properties of hydrogen in insulating materials. (B23, B11). 494060

physical radiation effects
Analytic solution for radiation-induced charging and discharging of dielectrics. (A13). 464162

Effect of synchrotron radiation on Main Ring magnets. (E16, B25). 473710

Effects of radiation on TFTR coil materials. (A14, B25). [Data] 475054

Electron-beam-induced conductivity in thin insulating films. (B25, E43). 494171

Mechanism of formation of near-to-surface layer of space charge in irradiated dielectrics. (A13). 492652

Model of space charge accumulation in solid dielectric materials under accelerated electron irradiation. (B25). 490714

Reactor irradiation effect on electrical properties of a series of insulating materials. (B25). 487014

Specific changes in electric conductivity of organic dielectric under pulse gamma-neutron radiation conditions. (B25). 465742

polarization
Comments on the theory of dipolar fluids. (A11). 467114

raman effect
Fluorescent and Raman scattering by molecules embedded in small particles: Magnetic dipole transitions. (B24). 486983
Raman and fluorescent scattering by molecules embedded in spheres with radii up to several multiples of the wavelength. (A11). 477636

scattering
Scattering from an infinite dielectric cylinder embedded into another. (A32). 478591

space charge
Mechanism of formation of near-to-surface layer of space charge in irradiated dielectrics. (A13). 492652

spin orientation
Dynamic nuclear polarization in dielectric solids. (A13). 488940

DIELECTRIC PROPERTIES:

See also *PERMITTIVITY*

laves phases
Dielectric phase transitions in the superconducting C15 compounds ZrV₃ and HfV₃. (B22, A17). 472665

DIELECTRIC TRACK DETECTORS:

On the use of solid state nuclear track detectors for the measurement of ranges of charged particles. (E41). 474022
Spherical particle neutron dosimeter (SPAN-dosimeter). (E41). 488256

The use of solid-state nuclear track detection for the study of boron and fissile nuclide distributions in steel samples. (B11). 472367

alpha detection
Moisture-insensitive monitoring of radon. (E41). 470910

comparative evaluations
Results of Czechoslovak comparison of the measurements on a ²⁵²Cf neutron source. (C55, E41). 484696

cosmic ray detection
Detection of relativistic cosmic ray iron nuclei in the plastic track detector CR-39. (E41). 492056

data processing
Automatic track spark counter. (E41). 477378

efficiency
On the heating of cellulose nitrate plastics and alpha track revelation characteristics. (E43). 474163

Use of plastic track-detectors for fast neutron dosimetry. (E41).

electric sparks 488235

Jumping spark evaluation of α -radiograms taken on strippable LR-115 film. (E41). [Data] 474125

electron spin resonance
Relationship between thermoluminescence, radiation-induced electron spin resonance and track etchability of Lexan polycarbonate. (E41, B14, A13). [Data] 480760

etching
Bulk and track etch rate studies with some solid dielectric track detectors. (E41). 470863

Diameter of tracks revealed in some polymeric detectors, and efficient range of delta rays. (C11, C55). 465880

Further investigations on electrochemical etching for personnel neutron dosimetry. (E41). 488277

Improvements of the electrochemical etching technique for fast neutron dosimetry. (E41). 488248

A pre-electrochemical etching treatment to improve neutron recoil track detection. (E41). [Data] 480766

Track recording method for the detection of defect tracks caused by charge carriers. (E41). 474052

feasibility studies
Experiment definition and integration study for the accommodation of giant, passive detector of exotic particles in the cosmic rays (epic) payload on shuttle/spacelab missions. Final report, 6 jun. 1977 - 5 feb. 1978. (E41). 488266

fission fragment detection
Plastic film detectors for light and heavy element fission studies. (E41). 492131

heavy ions
Heavy ion track lengths in solid dielectric track detectors. (E41). 485055

On possibility of obtaining spectrometric information at the heavy ion detection by breakdown counters. (E41). 495136

in core instruments
Recording equipment for neutron flux monitoring. (E41, F41, E24). 485015

mos transistors
On possibility of obtaining spectrometric information at the heavy ion detection by breakdown counters. (E41). 495136

multicharged ions
Use of the cellulose nitrate for detection of energetic multicharged ions. (E41). 492126

neutron dosimetry
Methods and organization of measuring occupational chronic neutron doses. (C55, E41). 463441

neutron radiography
Plastic detector technique in fast neutron radiography. (E41). 480768

neutron reactions
Confirmation of track formation in cellulose nitrate detector by lithium particles from ¹⁰B(n, α)⁷Li reaction. (A13). [Data] 489068

nitrocellulose
Track-diameter measurements of alpha particles in diacel plastic track detector. (E41, B25). 474101

organic polymers
Calibration of CA8015 cellulose nitrate for fast neutron dosimetry. (E41). 485020

Detection of relativistic cosmic ray iron nuclei in the plastic track detector CR-39. (E41). 492056

performance testing
Evaluation of polymers for fast neutron personnel dosimetry by the electrochemical etching technique. (E41, B24). 461831

safeguards
Recording equipment for neutron flux monitoring. (E41, F41, E24). 485015

silver chlorides
Monocrystal silver halide nuclear track detectors: a reference listing. (E41). 492155

thermoluminescence
Relationship between thermoluminescence, radiation-induced electron spin resonance and track etchability of Lexan polycarbonate. (E41, B14, A13). [Data] 480760

DIELECTRICS:

See *DIELECTRIC MATERIALS*

DIENES:

See also *ALLENE*; *BUTADIENE*; *CYCLOPENTADIENE*

chemical radiation effects
Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (no. 11). (B14). 481728

Radiation-induced crosslinking of syndiotactic 1,2-polybutadiene. (B14). 472525

chemical reactions
Selective formation of trans-2-butene-1,4-d₂ and (E)-2-methyl-2-butene-1,4-d₂ in deuteration of 1,3-butadiene derivatives over thorium oxide catalyst. (B12). [Data] 478954

cross-linking
Radiation-induced crosslinking of syndiotactic 1,2-polybutadiene. (B14). 472525

electron-molecule collisions
Electronic spectroscopy of 1,3-cyclopentadiene, 1,3-cyclohexadiene and 1,3-cycloheptadiene by electron impact. (A12). 467201

gas chromatography
Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330

labelling
Deuterium isotope effects in the 3,3-sigmatropic shift. (B12). 468716

Selective formation of trans-2-butene-1,4-d₂ and (E)-2-methyl-2-butene-1,4-d₂ in deuteration of 1,3-butadiene derivatives over thorium oxide catalyst. (B12). [Data] 478954

- liquid column chromatography**
 Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330
- mass spectroscopy**
 Graphitized carbon in gas-liquid-solid chromatography and gas chromatography/mass spectrometric analysis of high boiling hydrocarbon mixtures. (B11). [Data] 472330
- oxidation**
 Oxidation of the cyclohexadienyl radical by metal ions. (B14). [Data] 493786
- polymerization**
 Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (no. 11). (B14). 481728
- DIESEL ENGINES:**
 See *DIESEL MOTORS*
- DIESEL MOTORS:**
power supplies
 Emergency power generators with diesel aggregates. Contents of the draft regulation KTA 3702.1. Pt. 1. (E22). 484896
 Enhancement of on-site emergency diesel generator reliability. (E22). 487981
- DIET:**
animal growth
 Effect of diet protein quality on growth and protein synthesis in rats. (C44). 463325
biological radiation effects
 American coot (*Fulica americana*) on the Hanford Site. Part I. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). 487211
 Radioprotective effects of diet in rats exposed to acute or prolonged irradiation. (C14). 466020
contamination
 Cesium-137 in various Chicago foods. (C22). 479971
 Normal dietary levels of ^{226}Ra , ^{228}Ra , ^{210}Pb , and ^{210}Po for man. (C21). 479944
nitrogen
 Correlation between dietary nitrogen, level of plasma urea and urea excretion in urine of buffalo calves. (C44). 461151
radioactivity
 Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). [Data] 494348
 EML diet studies: second quarter 1978. (C22, C21; Strontium-90 content of human dietary items purchased in New York City and San Francisco; and ^{90}Sr ingestion there and in Chicago). [Data] 479970
strontium 90
 ^{90}Sr and ^{137}Cs in total diet. (C43). [Data] 491092
trace amounts
 Dietary bromine in the Glasgow area. (C43). [Data] 463322
 Dietary selenium in the Glasgow area. (C43). [Data] 463323
tracer techniques
 Correlation between dietary nitrogen, level of plasma urea and urea excretion in urine of buffalo calves. (C44). 461151
 Effect of diet protein quality on growth and protein synthesis in rats. (C44). 463325
 Effect of high carbohydrate or high protein diets on the uptake of ^{14}C cyanocobalamin in the rat organs. (C21, C31). 461094
- DIETHYLDITHIOCARBAMATES:**
 See *DDTC*
- DIETHYLENETRIAMINEPENTAACETIC:**
 See *DTPA*
- DIFFERENTIAL CROSS SECTIONS:**
continued fractions
 Empirical continuation of the differential cross section. (A11, A21). 477589
data processing
 Empirical continuation of the differential cross section. (A33). 481470
neutron detection
 On the consistency between integral and differential cross section data. (E21, E41, D15). [Data] 470507
neutron reactions
 The differential cross section and polarization for the elastic scattering of 2.9 MeV neutrons by Fe, Cu, I, Hg and Pb. (A34). 472250
proton reactions
 Inelastic proton scattering to high spin states of unnatural parity. (A33). 464947
proton-proton interactions
 Veneziano-like model with $2q_{2\text{anti}}$ q meson trajectory and pp scattering at 90°sub(c.m.) . (A21). [Data] 475585
regge poles
 Regge pole analysis of differential cross sections for elastic molecular scattering. (A12). 467171
shell models
 Systematical 'anomalous' features of proton elastic scattering related to shell structure. (A34). 465112
veneziano model
 Veneziano-like model with $2q_{2\text{anti}}$ q meson trajectory and pp scattering at 90°sub(c.m.) . (A21). [Data] 475585
- DIFFERENTIAL EQUATIONS:**
 See also *BOLTZMANN EQUATION; BOLTZMANN-VLASOV EQUATION; DIRAC EQUATION; EQUATIONS OF MOTION; HAMILTON-JACOBI EQUATIONS; KLEIN-GORDON EQUATION; KORTEWEG-DE VRIES EQUATION; LAPLACE EQUATION; MAXWELL EQUATIONS; NAVIER-STOKES EQUATION; SCHROEDINGER EQUATION; STURM-LIOUVILLE EQUATION*
 Saint Venant's equation and theory of characteristics. (E11). 491450
analytical solution
 Darboux transformation and explicit solutions of differential-difference and difference-difference evolution equations. I. (A11). 488671
 Darboux transformation and explicit solutions of the Kadomtcev-Petviashvili equation, depending on functional parameters. (A11). 488670
asymptotic solutions
 On the asymptotic expansions of solutions of an nth order linear differential equation. (A11). 488689
boundary conditions
 Boundary-distribution solution of the Helmholtz equation for a region with corners. (A11). 488710
 Nonreflecting boundary conditions for nonlinear hyperbolic systems. (F50). 492329
 Numerical solution of the Helmholtz equation for two-dimensional polygonal regions. (A11). 488711
cauchy problem
 Fortran program for computation of Weber parabolic cylinder functions. (F51). 488516
computer codes
 Fortran program for computation of Weber parabolic cylinder functions. (F51). 488516
duality
 Self-dual propagating wave solutions in Yang-Mills gauge theory. (A11). 488654
f codes
 FORSIM VI: a program package for the automated solution of arbitrarily defined differential equations. (F51). 485236
galerkin-petrov method
 Numerical experiments in identification of parameters in differential and partial differential equations. (F51). 485238
 Simplified galerkin method for hyperbolic equations. (F50). 492326
nonlinear problems
 Simplified galerkin method for hyperbolic equations. (F50). 492326
nonmeasurable variables
 Symmetry and separation of variables in the linear differential second order equation. 2. (A11). 492490
numerical solution
 ALFVEN-A two-dimensional code based on SHASTA, solving the radiative, diffusive MHD equations. (A13, F51). 459840
 FORSIM VI: a program package for the automated solution of arbitrarily defined differential equations. (F51). 485236
 MOLID: a general purpose subroutine package for the numerical solution of partial differential equations. (F50; Method of lines, in FORTRAN). 474383
 Numerical solution of a nonlinear hyperbolic equation by the random choice method. (A11, A13). 488576
 Numerical solution of the Helmholtz equation for two-dimensional polygonal regions. (A11). 488711
 Numerical treatment of dynamical systems. (A11). 488643
perturbation theory
 Multidimensional perturbation theory for nonseparable wave equations. (A11). 474491
transformations
 Darboux transformation and explicit solutions of the Kadomtcev-Petviashvili equation, depending on functional parameters. (A11). 488670
 Darboux transformation and explicit solutions of differential-difference and difference-difference evolution equations. I. (A11). 488671
variations
 On systems of periodic differential equations. (A11). 459656
- DIFFERENTIAL PAC:**
 Application of perturbed angular correlations to chemistry and related areas of solid state physics. (A13). 471537
cadmium 111
 The perturbed angular correlation method - a modern technique in studying solids. (A13). 489069
- DIFFERENTIAL THERMAL ANALYSIS:**
computer codes
 Computer programs for the analysis of DTA and TG curves. (F51). 495292
radiolysis
 Low temperature differential thermal analysis (DTA) of alcohol matrices stabilizing primary γ -radiolysis products. (B14). [Data] 465466
uranium dioxide
 Thermal analysis of uranium dioxide. (B23). 494088
- DIFFERENTIAL TOPOLOGY:**
mathematical manifolds
 Graded G-structures. (F51). 485232
- DIFFRACTION:**
 See also *ATOMIC BEAM DIFFRACTION; ELECTRON DIFFRACTION; NEUTRON DIFFRACTION; X-RAY DIFFRACTION*
scattering amplitudes
 Unitarity bounds on elastic absorptive amplitudes involving total cross section, forward slope and curvature. (A11). 488706
DIFFRACTION (ELECTRON):
 See *ELECTRON DIFFRACTION*
DIFFRACTION (NEUTRON):
 See *NEUTRON DIFFRACTION*
DIFFRACTION (X-RAY):
 See *X-RAY DIFFRACTION*
DIFFRACTION DISSOCIATION:
 See *DIFFRACTION MODELS*
DIFFRACTION MODELS:
 Diffraction production mechanisms. (A21). 468088
 Glue balls, quarks, and the pomeron-f. (A21). 489762

- particle production**
Diffraction fragmentation of a nucleon and generation of high-energy gamma-quanta in NN-collisions at energies about 10 TeV. (A21). 483655
- regge calculus**
High-mass diffraction in the supercritical region. (A21). 460196
- rescattering**
A simple analytic treatment of rescattering effects in the Deck model. (A21). 468030
- DIFFRACTION PRODUCTION:**
See *DIFFRACTION MODELS*
- DIFFRACTOMETERS:**
See also *GAMMA DIFFRACTOMETERS; X-RAY DIFFRACTOMETERS*
Magnetic neutron scattering and the chemical bond. (A13). 471459
- specifications**
Diffraction gauging. (E42); Sizing of contoured surfaces on machined parts). 461898
- ultracold neutrons**
Experiments with very slow neutrons. (A31, E41). [Data] 468235
- DIFFUSION:**
(Not for the concept covered by THERMAL DIFFUSION.)
See also *GASEOUS DIFFUSION*
- atoms**
Coverage of foreign atoms on surfaces as a function of adsorption, sputtering, and diffusion rates. (A13). 483263
- carbon 14**
Investigations of surface treatment of propellant grains using labelled substances. (D24). 484813
- grain boundaries**
Study of interdiffusion of Ni/Fe layers by Auger sputter profiling. (A13). 459792
- isotope effects**
Small-polaronic diffusion of light interstitials in bcc metals. (A13). 477873
- mathematical models**
A model for diffusion in a bistable potential field. (A11). 488708
- measuring methods**
Apparent ionic charge and conditional complexation constant determination by a transport method using radiotracer. (B12). [Data] 493647
- muon probes**
Effect of trapping on μ^+ spin depolarization in solids. (A13). 474865
Stochastic theory of spin depolarization of muons diffusing in the presence of traps. (A13). 474804
- physical radiation effects**
Ion-beam-induced migration and its effect on concentration profiles. (A32, A13). 493140
- polarons**
Small-polaronic diffusion of light interstitials in bcc metals. (A13). 477873
- reaction kinetics**
Method and device for measuring the diffusion of particles of one or several materials through another material existing in solid form. (A13). 464229
- tracer techniques**
Diffusion of cobalt in alpha zirconium. (B22, A13). 493951
- DIFFUSION CHAMBERS:**
low level counting
Low level counting using thermodynamic nonequilibrium effects. (E41). 495074
- DIFFUSION COATING:**
(The process)
- niobium carbides**
Niobium carbide deposition on the iron and steel surface. (B21). 484147
- DIFFUSION COATINGS:**
texture
The texture of diffusion-grown disilicide layers on molybdenum and tungsten. (B22). 490608
- DIFFUSION WELDING:**
nuclear industry
Diffusion welding of metals. (B21). 476233
- stainless steels**
Selection of interlayers for solid state bonding of stainless steel with metals of groups IVa, Va and VIa. (B22). 460732
- DIGALLIC ACID:**
See *TANNIC ACID*
- DIGESTION:**
See also *ANAEROBIC DIGESTION*
- DIGESTIVE SYSTEM:**
See also *BILIARY TRACT; ESOPHAGUS; GASTROINTESTINAL TRACT; INTESINES; LARGE INTESTINE; LIVER; ORAL CAVITY; PANCREAS; PHARYNX; RECTUM; SMALL INTESTINE; STOMACH; TEETH; TONGUE*
- DIGESTIVE SYSTEM DISEASES:**
See also *ENTERITIS; HEPATITIS; LIVER CIRRHOSIS; PROCTITIS*
- biomedical radiography**
Recurrent intussusception. (C61). 461375
Roentgeno-radioisotope investigations in digestive system diseases. (C61, C62). 482319
- diagnosis**
/sup 99mTc-IDA imaging in the differential diagnosis of acute cholecystitis and acute pancreatitis. (C62). 470098
Demonstration of gastroesophageal reflux in children by radionuclide gastroesophagography. (C62, C61; /sup 99mTc-sulfur colloid). 487734
Evaluation of inflammatory bowel disease with /sup 99mTc-DTPA. (C62, C31). 470114
Improved radionuclide method for the diagnosis of gastroesophageal reflux and aspiration in children (milk scan). (C62, C61; /sup 99mTc-sulfur colloid-milk mixture). 487694
- Simple computer quantitation of spleen-to-liver ratios in the diagnosis of hepatocellular disease. (C62, C21; /sup 99mTc-sulfur colloid). 473491**
- Xenon-133 retention in hepatic steatosis - correlation with liver biopsy in 45 patients: concise communication. (C62, C21, C31). 487672**
- radiation effects**
Irradiation alone or in combination with surgery in stage IB and IIA carcinoma of the uterine cervix. (C15). 476593
- radioisotope scanning**
Roentgeno-radioisotope investigations in digestive system diseases. (C61, C62). 482319
- DIGITAL CIRCUITS:**
multiwire proportional chamber
Unit for parallel coding of information from multiwire proportional chambers. (E41). 477377
- timing circuits**
Timing coder with the programmed definition of the channel wide. (E42). 492203
- DIGITAL COMPUTERS:**
electronic circuits
M7 - a high speed digital processor for second level trigger selections. (E41). 470860
- DIGITAL SYSTEMS:**
multivibrators
One shots and alternatives in synchronous digital system design. (F50). 488506
- pulse discriminators**
On digital filtration in correlation time-of-flight spectrometry. (E41). 485106
- safety**
Digital integrated protection system. (C52, E24). 494431
- survey monitors**
System for evaluation of the true average input-pulse rate. (E41). 482824
- DIGITAL-TO-ANALOG CONVERTERS:**
photoelectron spectroscopy
Application of the AI-4096 analyzer and the ZAP-723/1 digital-to-analog converter for operation with a photoelectron spectrometer and a coincidence instrument. (E42). 495168
- DIGITALIS GLYCOSIDES:**
See also *DIGOXIN*
- DIGITIZERS:**
(A device for converting non-digital information into digits.)
See also *CATHODE RAY TUBE DIGITIZERS; FLYING SPOT DIGITIZERS; SCANNING MEASURING PROJECTORS*
Equipment for simultaneous multichannel measurement of nuclear reaction products. (E42). 477423
An inexpensive structure-model digitizing device. (E41). 485037
- specifications**
Nuclear reactor and production systems with flux-optical digitizer. (E24, D22; Patent). 480612
- DIGOXIN:**
accuracy
Inter and intra laboratory variation of digoxin radioimmunoassay in Sweden. (C45). 479993
- bioassay**
Homogeneous enzyme immunoassay of serum digoxin with use of a bichromatic analyzer. (C62). 461402
- radioassay**
Emergency procedure of digoxin radioassay. (C62; ¹²⁵I tracer technique). 470079
- radioimmunoassay**
Four kits for plasma digoxin radioimmunoassay compared. (C62; ⁸⁶Rb tracer technique). [Data] 487680
Homogeneous enzyme immunoassay of serum digoxin with use of a bichromatic analyzer. (C62). 461402
Inter and intra laboratory variation of digoxin radioimmunoassay in Sweden. (C45). 479993
Performance of radioimmunoassays for digoxin as evaluated by a group experiment. (C45). 487344
- DIHYDROXYBENZENE-META:**
See *RESORCINOL*
- DIHYDROXYBENZENE-ORTHO:**
See *PYROCATECHOL*
- DILUENTS:**
See *SOLVENTS*
- DILUTE ALLOYS:**
impurities
Application of low temperature nuclear orientation to metals with magnetic impurities. (A17). 475470
Low temperature properties of Kondo alloys. (A17). 475475
- kondo effect**
Electrical resistivity of dilute heavy rare earths in Lu. (A13, B22). 488931
Low temperature properties of Kondo alloys. (A17). 475475
- magnetic susceptibility**
Magnetic and superconducting properties of dilute Cd alloys with Cr, Mn and Ni impurities. (B22, A17). 472629
- nuclear alignment**
Application of low temperature nuclear orientation to metals with magnetic impurities. (A17). 475470
- superconductivity**
Magnetic and superconducting properties of dilute Cd alloys with Cr, Mn and Ni impurities. (B22, A17). 472629
- thermal radiation**
The effects of thermal-neutron irradiation on platinum and dilute platinum-gold alloys. (B25). [Data] 487041

DIMERCAPTOETHANE:See *DITHIOLS***DIMERIZATION:****isotope effects**Thermal ion-molecule reactions in oxygen-containing molecules.
(B12). [Data] 462714**DIMERS:****biological repair**Tumorigenic action of beta, proton, alpha, and electron radiation on the rat skin. Progress report, August 1, 1977 - January 31, 1979.
(C14). 461031**chemical radiation effects**Effects of ⁶⁰Co gamma irradiation on the polymerization of microtubules in vitro. (B14). 465490**radiation effects**DNA damage in synchronized hela cells irradiated with ultraviolet.
(C11, C31; Sensitivity in different cell cycle stages could be due solely to differences in chromatin geometry). 460963**DIMETHYL ETHER:**See *METHYL ETHER***DIMETHYL KETONE:**See *ACETONE***DIMETHYL SULFOXIDE:**See *DMSO***DIMETHYLBENZENES:**See *XYLENES***DIMETHYLPROPANE (2,2-):**See *2,2-DIMETHYLPROPANE***DINITROPHENOL:****atp**

Alterations in the survival of X-irradiated cells by 2,4-dinitrophenol depending on ATP deprivation. (C11). [Data] 481995

radiolysis

Formation of radical pairs and mechanism of initial stages of solid nitrophenol radiolysis. (B14). 479309

Relaxation of non-equilibrium structure of radicals and radical pairs in 2,4-dinitrophenol crystals. (B14). 479308

DIODE TRANSISTORS:See *TRANSISTORS***DIODE TUBES:**See also *THERMIONIC DIODES***electron emission**Study of relativistic electron beams generated by a foillless diode.
(A12). 464010**lifetime**Operation of repetitively pulsed 300 kV, 20 kA electron beam diode.
(E16). 476975

Repetitively pulsed electron beam diode lifetime and stability. (A14). 489123

performanceStudy of relativistic electron beams generated by a foillless diode.
(A12). 464010**simulation**

Production of 0.5-TW proton pulses with a spherical focusing, magnetically insulated diode. (A12). 474594

stability

Repetitively pulsed electron beam diode lifetime and stability. (A14). 489123

DIODES (SEMICONDUCTOR):See *SEMICONDUCTOR DIODES***DIOLS:**See *GLYCOLS***DIOXANE:****radiolysis**

Radiolysis of cyclohexane and its heteroanalog. (B14). 479203

DIOXYETHYLENE ETHER:See *DIOXANE***DIPHENYL KETONE:**See *BENZOPHENONE***DIPHENYLPHOSPHINE OXIDE:**See *ORGANIC PHOSPHORUS COMPOUNDS***DIPOLES:**See also *ELECTRIC DIPOLES; MAGNETIC DIPOLES***giant resonance model**

Macroscopic theory for dipole states. (A33). 472208

hyperfine structure

On effects of the dipole reservoir in radiofrequency discrete saturation. (A13). 474684

DIRAC DELTA FUNCTION:See *DELTA FUNCTION***DIRAC EQUATION:**

Diffusion model for the dirac equation. (A11). 477587

analytical solution

A dirac-like equation for gauge fields. (A11). 471225

Exact solutions of Dirac equation. (A11). 480996

A method for separation of variables in the Dirac equation. (A11). 480981

New exact solution to the Einstein-Dirac equations. (A11). 477666

Normalizable solutions to the Dirac equation in the presence of a magnetic monopole. (A11). 488679

Point Coulomb solutions of the Dirac equation: analytical results required for the evaluation of the bound electron propagator in quantum electrodynamics. (A11). 474541

WKB solutions of the Dirac equation for a point-Coulomb potential and their application in the relativistic theory of bound Compton scattering. (A11). 481006

angular momentum operators

Generalized total angular momentum operator for the Dirac equation in curved space-time. (A11). 474424

conformal groups

On the new invariance algebras of relativistic equations for massless particles. (A11). 477620

conformal invariance

On the new invariance algebras of relativistic equations for massless particles. (A11). 477620

factorization

A method for variable separation in the Dirac equation. (A11). 480982

foldy-wouthuysen transform

Question of unitarity of Foldy-Wouthuysen transformations and Volkov states in two-component forms. (A11). 463901

gauge invariance

The Dirac field is a gauge transformation. (A21). 478477

green function

The Green's functions of a relativistic free-electron in uniform magnetic field. (A11). 480968

isovectors

Normalizable solutions to the Dirac equation in the presence of a magnetic monopole. (A11, A21). 488680

nonlinear problems

Soliton solutions of nonlinear Dirac equations. (A11). 477683

riemann space

Geometric properties of Dirac fields in a Riemannian space-time. (A11). 488703

Geometric properties of Dirac fields in a Riemannian space-time. (A11). 488704

semiclassical approximation

Semiclassical approximation for the Dirac equation in strong fields. (A11). 492464

solitons

Soliton solutions of nonlinear Dirac equations. (A11). 477683

space-time

Generalized total angular momentum operator for the Dirac equation in curved space-time. (A11). 474424

uncertainty principle

Kinks and the Heisenberg uncertainty principle. (A21, A11). 468127

weyl unified theory

A dirac-like equation for gauge fields. (A11). 471225

DIRAC MATRICES:See *DIRAC OPERATORS***DIRAC MONOPOLES:**See *MAGNETIC MONOPOLES***DIRAC OPERATORS:**

Characterization and uniqueness of distinguished self-adjoint extensions of dirac operators. (A21). 468096

integral calculus

On the expansion over the products of solutions of two Dirac systems. (A11). 474451

DIRECT COLLECTION CONVERTERS:See also *BETAVOLTAIC CELLS***DIRECT ENERGY CONVERSION:**See also *THERMIONIC CONVERSION*

Nonconventional conversion systems of nuclear energy. (A16). 485967

DIRECT ENERGY CONVERTERS:See also *BETAVOLTAIC CELLS; CLOSED-CYCLE MHD GENERATORS;**FUEL CELLS; LIQUID-METAL MHD GENERATORS; MHD**GENERATORS; OPEN-CYCLE MHD GENERATORS; PHOTOVOLTAIC**CELLS; RADIOISOTOPE BATTERIES; SOLAR CELLS; THERMIONIC**CONVERTERS; THERMOELECTRIC GENERATORS***physical radiation effects**

Selected topics on surface effects in fusion devices: neutral-beam injectors and beam-direct converters. (A14). 467583

DIRECT REACTIONS:See also *ALPHA-TRANSFER REACTIONS; KNOCK-OUT REACTIONS;**MANY-NUCLEON TRANSFER REACTION; ONE-NUCLEON TRANSFER**REACTIONS; PICKUP REACTIONS; QUASI-FREE REACTIONS;**STRIPPING; THREE-NUCLEON TRANSFER REACTION; TRANSFER**REACTIONS; TWO-NUCLEON TRANSFER REACTIONS*

Dominant partition method. (A33). 486219

o codesCalculation of characteristics of direct nuclear reactions with complex particles by means of distorted wave method of finite-range interaction. (A33, F51; Complex particles: α , t, ³He, ⁴He). 490113**spin orientation**

Polarization effects in nuclear reactions. (A33, A34). 486194

DIRECTIONAL CORRELATION:See *ANGULAR CORRELATION***DIRECTIONAL RADIATION DETECTOR:**

Directional detector of gamma rays. (E41; Patent). 488231

specifications

Directional drift chambers. (E41). 466753

DIRICHLET PROBLEM:

Abstract on harmonic decompositions of Dirichlet forms. (A11). 492489

DISACCHARIDES:See also *SACCHAROSE***DISASTERS:**See *ACCIDENTS***DISCHARGES (ELECTRIC):**See *ELECTRIC DISCHARGES***DISCHARGES (IONIZATION):**See *IONIZATION***DISCHARGES (WASTES):**See *WASTE DISPOSAL***DISCHARGING (REACTOR):**See *REACTOR FUELING*

DISCRIMINATORS:See also *PULSE DISCRIMINATORS***DISEASES:**(Limited to diseases of man and animals; see also *PLANT DISEASES*.)**biological models**

Animal model of human disease. (C14). 469664

metabolism

Development of new technology for the use of stable isotopic tracers in the study of human health and disease. (C60, F30). 473326

DISINFECTION:See *STERILIZATION***DISINFESTATION:**See also *GRAIN DISINFESTATION***DISINTEGRATION (FISSION):**See *FISSION***DISINTEGRATION (NUCLEAR PART.):**See *ANNIHILATION; PARTICLE DECAY***DISINTEGRATION (NUCLEAR):**See *DECAY***DISLOCATIONS:****electron microscopy**

Characterization of dislocation loops in neutron irradiated Al-0.1% Mg by transmission electron microscopy. (B25). 476393

High resolution and structure of the dislocation core. (A13). 492605

electron spin resonance

An EPR study of defects in dilute Au;Er alloys. (A13). 464207

fine structureElectron microscopy and electron diffraction study of the domain structures, the dislocation fine structure, and the phase transformations in β -MoTe₂. (A13). 485621**nuclear magnetic resonance**

A study of the induction of dislocations using nuclear spin relaxation. (A13). 477846

physical radiation effects

Growth kinetics of dislocation loops and voids - the role of divacancies. (B25). [Data] 494176

scattering

Role of dislocation scattering for the low-temperature electrical resistivity. (A13). 464130

silicon

Nature of secondary defects in silicon produced by high temperature electron irradiation. (A13). 481091

DISMANTLING (REACTOR):See *REACTOR DISMANTLING***DISPERSE SYSTEMS:**See *DISPERSIONS***DISPERSION RELATIONS:**(For dispersion of light use *OPTICAL DISPERSION*.)**hilbert transformation**

New two-pole approximation for the plasma dispersion function Z. (A14). 485769

n codes

NULLIJN, a program to calculate zero curves of a function of two variables of which one may be complex. (A14, F51). 459919

nonlinear problems

On the problem of the existence of the solutions of the nonlinear nonsingular equations of quantum field theory. (A11). 474492

nuclear forces

Recent progress in dispersion theoretical approach to nuclear forces. (A21). 481424

pade approximation

New two-pole approximation for the plasma dispersion function Z. (A14). 485769

DISPERSION THEORY:See *DISPERSION RELATIONS***DISPERSIONS:**(For the state of aggregation in materials; if related to wave phenomena see *DISPERSION RELATIONS* or *OPTICAL DISPERSION*.)See also *AEROSOLS; AQUEOUS SOLUTIONS; BINARY MIXTURES; COLLOIDS; FOAMS; GELS; HOMOGENEOUS MIXTURES; HYPERTONIC SOLUTIONS; MIXED SOLVENTS; MIXTURES; RADIOACTIVE AEROSOLS; RADIOCOLLOIDS; SLURRIES; SMOKES; SOLID SOLUTIONS; SOLUTIONS; SUSPENSIONS; TD-NICKEL; THOROTRAST; TOBACCO SMOKES***heat transfer**

Heat transfer characteristics of liquid-liquid dispersions flowing in an annulus. (E11). 480337

laminar flow

Effect of pore size distribution and flow segregation on dispersion in porous media. (E11). 470291

topography

Comparison of total and cold-extractable uranium in stream sediments of the southwestern Karoo supergroup, South Africa. (B31). 494195

turbulent flow

Effect of pore size distribution and flow segregation on dispersion in porous media. (E11). 470291

DISPERSIVE ION WAVES:See *ION PLASMA WAVES***DISPLACEMENT GAGES:**

Magneto-sonic type rod position monitoring system for nuclear power plants. (E24, E32, E42). 466625

behavior

Radioactive marking in the study of locomotion in small mammals. (C31). 487322

control rod drives

Use of reed switches for position indicator systems. (E24). 466628

silver 110

Radioactive marking in the study of locomotion in small mammals. (C31). 487322

DISPLAY DEVICES:See also *INTERACTIVE DISPLAY DEVICES*

Graphical interpretation of numerical model results. (F30). 480927

Video Comparator. (E42). 461887

color

The organization and support of colour displays for a nuclear research accelerator. (E16). 494857

glow discharges

Plasma-panels and microprocessors. (E42). 492224

on-line control systems

Construction principles and application scopes of the intellectual display terminal with control by microprocessor. (E42, E24). 492190

optimization

Resolution, sensitivity, and contrast in gamma-camera design: a critical review. (C62, E41). 487748

performance testing

An intercomparison of computer assisted image processing and display methods in liver scintigraphy. (C62). [Data] 473439

A multicentre comparison of computer assisted image processing and display methods in scintigraphy. (C62). 473438

regional analysis

Computational systems in support of environmental sciences. (C52, F30). 480154

DISPOSAL (WASTES):See *WASTE DISPOSAL***DISSOCIATION:**See also *PREDISSOCIATION***DISSOLUTION:**See also *LEACHING***DISTANCE:**See also *INTERACTION RANGE***laser radiation**

Device/method for contactfree distance and thickness measurement. (D22). 484794

specifications

HI profile distances and the Hubble constant. (A15). 467812

DISTILLATION:**carbon**

Isotropic and high density carbon made from carbonaceous powder prepared by distillation under reduced pressure. (B24). 472722

DISTORTED WAVE BORN APPROXIMATION:See *DWBA***DISTRIBUTION:**See also *ANGULAR DISTRIBUTION; SPATIAL DISTRIBUTION***DISTRIBUTION CONSTANTS:**See *DISTRIBUTION FUNCTIONS***DISTRIBUTION FACTOR (RAD DOSES):**See *SPATIAL DOSE DISTRIBUTIONS***DISTRIBUTION FUNCTIONS:****cascade theory**

Parton distribution functions in hadron and decay distribution functions in the new type of quark cascade model. (A21). 481369

electrons

Electron energy distribution function in ionization waves of different amplitudes. (A14). [Data] 462337

euclidean space

Renormalization group in the problem of wandering without self-intersections. (A11). 485267

DISTRICT HEATING:**bulgaria**

Possibilities of operating nuclear heating stations in the People's Republic of Bulgaria and analysis of their main parameters and flow diagrams. (E32, F11). [Data] 488056

comparative evaluations

Adoption of the heat reactor in Denmark. (F11, E31, E32). [Data] 463790

heat storage

Seasonal heat storage in aquifers. (F11). 495240

nuclear power plants

Direct-cycle HTGR work draws near prototype development. (E33; Using closed cycle gas turbines). 466708

The parameters of atomic district heating systems. (F11). 477500

process heat

State of the work on nuclear coal gasification and nuclear district heating. (E33, F11). 470711

switzerland

District heating from light water reactor power plants. (E31, E32). 463621

wwer type reactors

Possibilities of operating nuclear heating stations in the People's Republic of Bulgaria and analysis of their main parameters and flow diagrams. (E32, F11). [Data] 488056

DISTURBANCES:See also *SUDDEN IONOSPHERIC DISTURBANCE***magnetic fields**

Magnetohydrodynamics of nearly cylindrical configurations with fixed internal currents. (A14). 467625

DISULFIDES:See also *CYSTINE***DITHIOLS:****radiolysis**

Investigation of dithiol radiolysis by the method of gas-liquid chromatography. (B14). 479234

DIURETICS:See also *THEOPHYLLINE***DIURNAL VARIATION:**See *DAILY VARIATIONS***DIVERGENCES (INFRARED):**See *INFRARED DIVERGENCES***DIVERGENCES (ULTRAVIOLET):**See *ULTRAVIOLET DIVERGENCES***DIVERTORS:**See also *PDX DEVICES***beam injection heating**

Fokker-Planck /transport analyses of fusion plasmas in contemporary beam-driven Tokamaks. (A14). 464414

charged-particle transport the

Computer modelling of the bundle divertor. Part I. Basic equations. (A14). 485783

circular configuration

Torus type tokamak device. (A14). 489353

impurities

Divertor experiment for impurity control in DIVA. (A14). 464465

materials testing

Materials experience with tokamak plasmas. (A14). 459880

mathematical models

Divertor and gas blanket model and studies. (A14). 460000

specifications

Design of an advanced bundle divertor for the Demonstration Tokamak Hybrid Reactor. (A14). 475160

DMSO:**fluorescence**Diffusion limited energy transfer from $Tb^{3+} \rightarrow Nd^{3+}$ and $Tb^{3+} \rightarrow Ho^{3+}$ in DMSO. (A12). 483183**radiosensitivity**

Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346

toxicity

Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346

DNA:

Periodic orbit description of tunneling in symmetric and asymmetric double-well potentials. (B12). 486638

antimitotic drugs

Cell proliferation and DNA dependent DNA polymerase estimation in acute lymphoblastic leukaemia during treatment with prednisone and vincristine. (C21). 479947

biochemical reaction kineticsArylamidation and arylation by the carcinogen N-2-fluorenylacamide: a sensitive and rapid radiochemical assay. (C62; ^{14}C tracer technique). 487688

Cancer and Toxicology Section. (C15). 472990

Mechanisms for radiation damage in DNA. Progress report. November 1, 1977 - October 31, 1978. (C11; Gamma radiation). 472920

biological effectsRepair of ultraviolet light-damaged deoxyribonucleic acid in sbca strains of *Escherichia coli* K-12. (C12). 479804**biological radiation effects**

Animal model of human disease. (C14). 469664

Cells, targets, and molecules in radiation biology. (C11). 487175

Determination of melting curves of irradiated DNA preparations and of preparations isolated from irradiated calf lymph nodes. (C11, C14). 494263

Difference in melting profiles of gamma irradiated DNA from chicken erythrocytes and from *Escherichia coli* B/r. (C11). 494265

DNA damage in synchronized hela cells irradiated with ultraviolet. (C11, C31; Sensitivity in different cell cycle stages could be due solely to differences in chromatin geometry). 460963

DNA repair. (C12; UV radiation). 487195

DNA-metabolism in radiation damage to hemopoietic tissues: DNA biosynthesis, methylation, cyclic AMP regulation, repair transcription; correlation between DNP degradation and ATP level in tissues; postradiation urinary deoxynucleosides. (C14). 466056

Effect of oxygen on inactivation of biologically active DNA by γ rays in vitro: influence of metalloporphyrins and enzymatic DNA repair. (C11). 469601

Effect of radioprotective substances on endogenous dna synthesis and degradation in nuclei and chromatin. (C11). 484451

Functional roles of DNA polymerases β and γ . (C11; uv radiation). [Data] 487181Ionizing radiation damage to the folded chromosome of *Escherichia coli* K-12: sedimentation properties of irradiated nucleoids and chromosomal deoxyribonucleic acid. (C12; Gamma radiation). 487200**[Data]**

Mammalian cell biology. (C11; Fast neutrons, x radiation, solar radiation). 469579

Radiation-induced DNA damage in V79 spheroids and monolayers. (C11, C31; γ rays; cultured Chinese hamster (V79) cells). [Data] 476502Relative rates of repair of single-strand breaks and postradiation DNA degradation in normal and induced cells of *Escherichia coli*. (C12; uv radiation). 469618

Role of protein synthesis in postradiation degradation of DNP and DNA in rats thymocytes. (C11). 484445

Serological assay of DNA base damage. I. 5-hydroxymethyldeoxyuridine, a radiation product of thymidine. (C11; Gamma radiation). 469592

Transmutation effects of ^{32}P and ^{33}P incorporated in DNA. (C21, C11). 461081**biological recovery**

Radiation damage in DNA. (C11). 469590

biological regeneration

Nucleotide sequence analysis of regions of adenovirus 5 DNA containing the origins of DNA replication. (C45). 476662

biological repair

Cytotoxic, mutagenic and carcinogenic effects of energy-related agents in diploid human cells which differ in DNA repair capacity. Progress report, December 1977 - July 1978. (C11). 460984

Difference in melting profiles of gamma irradiated DNA from chicken erythrocytes and from *Escherichia coli* B/r. (C11). 494265

DNA repair and radiosensitivity of cells. (C11). 479777

DNA repair and the assessment of the biological hazards of ionizing radiation. (C11). 481994

DNA repair deficiency in lymphocytes from patients with actinic keratosis. (C15). [Data] 494309

DNA repair in a Fanconi's anemia fibroblast cell strain. (C11). 460966

DNA repair in gamma-and UV-irradiated *Escherichia coli* treated with caffeine and acriflavine. (C12). 484493

DNA repair in lens cells during chick embryo development. (C11). 460958

DNA repair in proteus mirabilis. 5. (C12; DNA synthesis studied by 3H -thymidine incorporation). 479794

DNA repair. (C12; UV radiation). 487195

DNA turnover in buffer-held *Escherichia coli* and its effect on repair of UV damage. (C11, C12). 484468Effect of DNA damaging agents on *Bac. stearothermophilus*. (C12). 484477

Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001

Enhancement of gamma-ray-induced DNA repair in response to UV-light exposure. (C14). 466002

Enzymatic editing and repair of irradiated DNA. (C11). 479749

Excision repair of gamma-ray-induced alkali-stable DNA lesions with the help of γ -endonuclease from *Micrococcus luteus*. (C11). 463060**[Data]**Functional roles of DNA polymerases β and γ . (C11; uv radiation). [Data] 487181

Genetic and physiological factors affecting repair and mutagenesis in yeast. (C12). 494281

Influence on DNA repair inhibitors on dominant lethal factors after gamma irradiation. (C14). 479825

Investigation of repair of single-stranded DNA breaks in *Vicia faba* cells. (C13). 484495

Mutagenesis and Teratogenesis Section. (C14; X radiation, gamma radiation). 472939

Pattern of ultra-violet-light-induced repair in metaphase and interphase chromosomes. (C11). [Data] 463040

Photoproducts and their significance in radiation damage-repair. (C11). 479773

Potentially lethal damage versus sublethal damage: independent repair processes in actively growing Chinese hamster cells. (C11; Effects of osmotic pressure differences due to NaCl concentrations in buffer solutions on sensitivity of cells to x rays). 476527

Recovery of DNA synthesis after ultraviolet irradiation of xeroderma pigmentosum cells depends on excision repair and is blocked by caffeine. (C11). [Data] 472917

[Data]

Repair and cell cycle response in cells exposed to environmental biohazards. Progress report, June 1, 1978 - May 31, 1979. (C12). 490938

Repair and survival after uv in quiescent and proliferating *Microtus agrestis* cells: different rates of incision and different dependence on DNA precursor supply. (C11). [Data] 487173Repair of ultraviolet light-damaged deoxyribonucleic acid in sbca strains of *Escherichia coli* K-12. (C12). 479804Repetitious nature of repaired DNA in mammalian cells. (C11; UV radiation, 3H and ^{14}C tracer techniques). [Data] 472922

Studies on the DNA-excision repair in lymphocytes of patients with recurrent Herpes simplex. (C15). 494315

Study of the repair of potentially lethal and sublethal radiation damage in Chinese hamster cells exposed to extremely hypo- or hypertonic NaCl solutions. (C11; X rays). 476517

Xeroderma pigmentosum and the role of DNA repair in oncogenesis. (C15). 494316

Xeroderma pigmentosum; heterogeneous syndrome and model for UV carcinogenesis. (C15). 494320

biosynthesisCorrelation between the levels of N^6 - $(\Delta^2$ -isopentenyl)-adenosine and synthesis of DNA in germinating rice seeds. (C31). 469836Effect of puromycin on DNA synthesis in *Drosophila* polytene chromosomes: a probe into the control of replication. (C31). 461124

Fifth annual report of cancer research at the University of Chicago. (C11, C62, C15). 472901

Involvement of DNA gyrase in replication and transcription of bacteriophage T7 DNA. (C12; Uv radiation, *Escherichia coli*). [Data] 461011

Unscheduled DNA synthesis (DNA repair) in the germ cells of male mice: its role in the study of mammalian mutagenesis. (C14; X radiation). 494303

chemical bondsPerturbed γ - γ angular correlations of sup(111m)Cd bound on DNA. (C11). 490935**chemical radiation effects**

The anatomy of direct repair. (C11). 479774

Excision repair enzymes after gamma-ray damage to micrococcus

- luteus DNA. (C12). 465943
 A serological study of removal of UV-induced photoproducts in the DNA of tetrahymena pyriformis GL: influence of caffeine, quinacrine and chloroquine. (C11). 472910
- chromatin**
 Role of alkaline endonucleases in the release of soluble chromatin from thymus, spleen and liver nuclei of normal and irradiated mice. (C14). [Data] 490973
- cross-linking**
 Possibilities and problems in uv radiation carcinogenesis experiments. (C14). 472950
- decomposition**
 Methods for study of induced by ultraviolet irradiation DNA degradation in micellar fungi after the example of *Aspergillus nidulans*. (C11). 484473
- fast neutrons**
 Double strand-breaks and DNA-to-protein cross-links induced by fast neutrons in bacteriophage DNA. (C12). [Data] 482010
- gamma radiation**
 Comparison of alkali-labile sites in DNA caused by gamma-irradiation and by depurination. (C11). 465911
- genome mutations**
 Genomic integrity of T1 DNA after γ - and ultraviolet irradiation. (C11). 460983
- hybridization**
 Radiation induced asymmetries in mitotic recombination: evidence for a directional bias in the formation of asymmetric hybrid DNA in yeast. (C12). 479792
- irradiation**
 An electron microscopic study of the photochemical cross-linking of DNA in guinea pig epidermis by psoralen derivatives. (C11). 484433
 In vivo effects of radiation as measured by flow cytometry. (C11). 460995
 Melting curves of gamma-irradiated DNA. (C11). [Data] 481984
- labelling**
 Mapping of restriction sites in the *argF* gene of *Escherichia coli* by partial endonuclease digestion of end-labeled DNA. (B13). 468918
- low dose irradiation**
 The effect of low radiation doses on DNA repair processes. (C11). 482003
- lymphocytes**
 Cytophotometric assay of lymphoid-cell DNA contents after radiation exposure. (C14). 466011
- maize**
 Influence of Zn-deficit on macromolecular biosynthesis and enzymatic activities in maize (Var. Ganga-2). (C41). 463307
- metabolism**
 Genetic control of chromosome breakage and rejoining in *Drosophila melanogaster*: spontaneous chromosome aberrations in X-linked mutants defective in DNA metabolism. (C14; X and uv radiation). 472951
- near ultraviolet radiation**
 Application of vacuum ultraviolet (VUV) absorption spectroscopy for the detection of UV-induced pyrimidine dimers in DNA. (C11). 487178
 The induction of thymine dimers by U.V. light as a function of cell stage. (C11). [Data] 463038
 Modification of lethal interactions between near-ultraviolet (365 nm) radiation and DNA-damaging agents. (C11, C12). [Data] 487188
 The non-random distribution of pyrimidine dimers in ultra-violet-irradiated DNA. (C11). [Data] 476533
- phase transformations**
 Phase transitions in DNA, their kinetics, and DNA sequencing. (C11). 465872
- photoreactivation**
 Photoenzymatic repair of ultraviolet-irradiated DNA in the cells of a shark, *Prionace glauca*. (C11). 463065
- polymerases**
 Cell proliferation and DNA dependent DNA polymerase estimation in acute lymphoblastic leukaemia during treatment with prednisone and vincristine. (C21). 479947
 Effect of neonatal undernutrition on various forms of DNA-dependent DNA polymerases in cerebellum and liver of rat. (C31). 461122
- pulsed irradiation**
 Analysis of photoenzymatic repair of UV lesions in DNA by single light flashes. XII. (C11). 484444
- quinolines**
 Isolation of a mammalian cell mutant sensitive to 4-nitroquinoline-1-oxide. (C11). 482000
- radiation injuries**
 Cytotoxic, mutagenic and carcinogenic effects of energy-related agents in diploid human cells which differ in DNA repair capacity. Progress report, December 1977 - July 1978. (C11). 460984
 Mechanisms for radiation damage in DNA, Progress report, November 1, 1977 - October 31, 1978. (C11; Gamma radiation). 472920
 Radiation damage to DNA in aqueous solution: a comparison of the response of the single-stranded form with that of the double-stranded form. (C11; Gamma radiation). 469603
 Study of the repair of potentially lethal and sublethal radiation damage in Chinese hamster cells exposed to extremely hypo- or hypertonic NaCl solutions. (C11; X rays). 476517
- radioimmunoassay**
 Measurement of anti-double-stranded DNA antibodies in major immunoglobulin classes. (C45). 484626
- radiolysis**
 Aqueous radiation chemistry of protein and nucleic acid constituents: ESR and spin-trapping studies. (B14). [Data] 462791
 Charge-migration phenomena in γ -irradiated costacking complexes of DNA nucleotides. II. An ESR study of various complexes in frozen solution. (C11, B14). [Data] 479748
 Enzymatic activities in ultraviolet-induced DNA degradation in *Escherichia coli*. (C12; Genetic variations in activity of exonucleases and polymerases in *E. coli* mutants). [Data] 476537
 Oxygen role in formation of carbon-carbon breakages in DNA under gamma radiation. (B14). 479210
- radionuclide kinetics**
 Radiation dosimetry in experimental animals exposed to tritiated water under different conditions. (C21). 491018
- radiosensitivity**
 Determination of melting curves of irradiated DNA preparations and of preparations isolated from irradiated calf lymph nodes. (C11, C14). 494263
 DNA single-strand break repair in cultured insect and mammalian cells after X-irradiation. (C11). 490920
 Sister chromatid exchanges in human lymphocytes exposed to ionizing radiation during G₀. (C11; γ rays). 490921
- radiosensitizers**
 E.s.r. study of free radicals formed in the irradiated DNA-Ro 7-0582 complex. (C11). [Data] 482005
- rare earths**
 Binding of rare earths to serum proteins and DNA. (C45). 469887
- response modifying factors**
 Role of the exogenous DNA in postradiation recovery processes. (C14). 466089
- strand breaks**
 Action of fluorescence visible light on mammalian cells. (C11). 487180
 Action spectra for the ultraviolet and visible light inactivation of phage T7: effect of host-cell reactivation. (C12). 461020
 Bacterial spores: biophysical aspects of recovery from radiation injury. (C12; γ rays; Clostridium botulinum). 487193
 DNA repair in plant cells exposed to gamma rays. (C13). 465961
 DNA replication and the repair of DNA strand breaks in nuclei of *Physarum polycephalum*. Progress report, September 1, 1977 - July 31, 1978. (C12; Monel). 469606
 DNA strand breaks induced by ¹²⁵I in cultured human kidney cells and their repair. (C21, C11). 466229
 DNA strand-break repair in regressing and developing chick embryo Mullerian ducts. (C14, C31). [Data] 479815
 DNA-protein crosslinking by trans-platinum(II)diamminedichloride in mammalian cells, a new method of analysis. (C11). 460978
 Effect of oxygen on inactivation of biologically active DNA by γ rays in vitro: influence of metalloporphyrins and enzymatic DNA repair. (C11). 469601
 Enzymatic activities in ultraviolet-induced DNA degradation in *Escherichia coli*. (C12; Genetic variations in activity of exonucleases and polymerases in *E. coli* mutants). [Data] 476537
 Impaired repair capacity of DNA breaks induced in mammalian cellular DNA by accelerated heavy ions. (C11; Argon-, carbon-, and neon-ion beams; cultured human kidney T-1 cells). [Data] 476520
- The implications for radiological protection of the synergistic interaction between radiation and other DNA damaging agents. (C11). 460955
 Ionizing radiation damage to the folded chromosome of *Escherichia coli* K-12: repair of double-strand breaks in deoxyribonucleic acid. (C12; Gamma radiation). 487201
 Radiation damage to DNA in aqueous solution: a comparison of the response of the single-stranded form with that of the double-stranded form. (C11; Gamma radiation). 469603
 The relation between survival and the initial yield of DNA strand breaks for *E. coli* B/r. (C12). [Data] 461013
 Relative rates of repair of single-strand breaks and postradiation DNA degradation in normal and induced cells of *Escherichia coli*. (C12; uv radiation). 469618
 Repair of DNA strand breaks in mammalian tissues. (C11, C14). 479775
 Repetitious nature of repaired DNA in mammalian cells. (C11; UV radiation, ³H and ¹⁴C tracer techniques). [Data] 472922
 Tumorigenic action of beta, proton, alpha, and electron radiation on the rat skin. Progress report, August 1, 1977 - January 31, 1979. (C14). 461031
- ultraviolet radiation**
 Biological activity of SV40 DNA. (C11). 469576
 The effects of the ultraviolet-protecting plasmids pKM101 and R205 on DNA polymerase I activity in *Escherichia coli* K-12. (C11). 484452
 Occurrence of pyrimidine-rich tracts in ascites tumor DNA and the formation of UV-induced thymine dimers. (C11). 484461
 Photosensitized formation of thymine dimers in DNA by tyramine, tyrosine and tyrosine-containing peptides. (C11). [Data] 472908
 Removal of T4 endonuclease V-sensitive sites from SV 40 DNA after exposure to ultraviolet light. (C11). 476534
 Structural changes of ultraviolet-irradiated DNA derived from hydrodynamic measurements. (C11). 461006
- DNA REPLICATION:**
 Defective-interfering particles of the human parvovirus adeno-associated virus. (C12; uv radiation). 476539
 Involvement of DNA gyrase in replication and transcription of bacteriophage T7 DNA. (C12; Uv radiation, *Escherichia coli*). [Data] 461011
- biological radiation effects**
 Study on the temporally ordered replication of DNA in HeLa S3 cells. (C45, C21). 479991

- Subchromosomal DNA synthesis in x-irradiated V-79 cells. (C11). 490911
- biological repair**
- Repair of DNA in replicated and unreplicated portions of the human genome. (C11). [Data] 482006
- gamma radiation**
- Effect of mitomycin C and ^{60}Co γ -irradiation on the replication of SV40 in cell lines of varying permissivity for SV40 replication. (C11). 487186
- genetic variability**
- Genetic and physiological factors affecting repair and mutagenesis in yeast. (C12). [Data] 494281
- hela cells**
- DNA replication in gamma irradiated HeLa cells. (C11). 484464
- inhibition**
- Magnetic effects in cellular and molecular systems. (C11). 476499
- mitomycin**
- Effect of mitomycin C and ^{60}Co γ -irradiation on the replication of SV40 in cell lines of varying permissivity for SV40 replication. (C11). 487186
- radiosensitivity**
- Subchromosomal DNA synthesis in x-irradiated V-79 cells. (C11). 490911
- ultraviolet radiation**
- Localization of human DNA-repair genes. (C11). 484471
- viruses**
- Effect of mitomycin C and ^{60}Co γ -irradiation on the replication of SV40 in cell lines of varying permissivity for SV40 replication. (C11). 487186
- DNA-ASE:**
- autoradiography**
- An autoradiographic technique for the detection of DNASE-patterns. (C11). 479750
- biological radiation effects**
- Activity of nucleases in rat tissues under the effect of long-term fractionated irradiation. (C11). 484447
- Correlation between changes in free and bound neutral DNA-ase and its natural inhibitor in the spleen of irradiated rats. (C11). 484446
- metabolism**
- Influence of day length on the activity of acid and alkaline nucleases in irradiated plants. (C13). 465946
- DNB:**
See DEPARTURE NUCLEATE BOILING
- DNP:**
See DINITROPHENOL
- DOCUMENT RETRIEVAL:**
See INFORMATION RETRIEVAL
- DOCUMENT TYPES:**
See also ENVIRONMENTAL IMPACT STATEMENT; INDEXES; MANUALS; PATENTS; REGULATORY GUIDES; REVIEWS
- DOCUMENTATION:**
(The assembling, coding, and disseminating of recorded knowledge.)
Assessing the useability of technical manuals: a successful case history. (F30, F50). 477524
- Testing and documentation of programs used to transform climatological precipitation data to a geographically gridded format. (F30, C52). 480928
- nuclear medicine**
- Improved photodocumentation of nuclear medical examinations with the gamma camera in a comparison with other methods. (C62). 487729
- DODECANE:**
- radiolysis**
- Radiolysis of dodecane-tributylphosphate and nitrous oxide solutions. (B14, B16). 493824
- The radiolysis of TBP-dodecane- HNO_3 systems. (B14). [Data] 493818
- DODEWAARD REACTOR:**
- 10 years of industrial experience at the Dodewaard Nuclear Energy Centre. (E31). 484953
- fuel elements**
- Behaviour of fissionable material in Dodewaard. (E31). 484950
- in-service inspection**
- Periodic inspections of the primary system. (E31). 484945
- reactor technology**
- Physical and environmental aspects of 10 years in the reactor industry. (E31). 488044
- DOEL-1 REACTOR:**
- construction**
- Problems of duplicating operating power plants. A two-loop pressurized-water-reactor reference-plant concept. (E32, F61). 494956
- operation**
- Chemical operational experiences in the Belgian nuclear power plants of Doel and Tihange. (E32, B12, B15). 466688
- retrofitting**
- Problems of duplicating operating power plants. A two-loop pressurized-water-reactor reference-plant concept. (E32, F61). 494956
- DOEL-2 REACTOR:**
- construction**
- Problems of duplicating operating power plants. A two-loop pressurized-water-reactor reference-plant concept. (E32, F61). 494956
- retrofitting**
- Problems of duplicating operating power plants. A two-loop pressurized-water-reactor reference-plant concept. (E32, F61). 494956
- DOGS:**
See also BEAGLES
- biological radiation effects**
- Biological effects of repeated exposure of beagle dogs to relatively insoluble aerosols of ^{144}Ce . IV. (C21). 469738
- Comparison of the effects of inhaled alpha- and beta-emitting radionuclides on pulmonary function of the dog. (C21). 469770
- Toxicity of ^{144}Ce inhaled in a relatively insoluble form by immature beagle dogs. VI. (C21). 469737
- Toxicity of ^{144}Ce inhaled in a relatively insoluble form by aged beagle dogs. VI. (C21). 469753
- Toxicity of ^{144}Ce inhaled in a relatively insoluble form by beagle dogs. X. (C21). 469752
- Toxicity of ^{90}Y inhaled in a relatively insoluble form by beagle dogs. IX. (C21). 469757
- Toxicity of ^{91}Y inhaled in a relatively insoluble form by beagle dogs. VIII. (C21). 469758
- Toxicity of inhaled $^{91}\text{YCl}_3$ in beagle dogs. XI. (C21). 469776
- Toxicity of inhaled $^{238}\text{PuO}_2$ in beagle dogs. A. Monodisperse 1.5 μm AD $^{238}\text{PuO}_2$ particles B. Monodisperse 3.0 μm AD particles. IV. (C21). 469772
- Toxicity of inhaled $^{144}\text{CeCl}_3$ in beagle dogs. XI. (C21). 469782
- Toxicity of inhaled alpha-emitting radionuclides: an experimental approach. (C21; ^{239}Pu , ^{238}Pu , ^{241}Am , ^{244}Cm , and ^{242}Cm aerosols). 469777
- Toxicity of inhaled $^{239}\text{PuO}_2$ in beagle dogs A. Monodisperse 0.75 μm $^{239}\text{PuO}_2$ particles. B. Monodisperse 1.5 μm $^{239}\text{PuO}_2$ particles. C. Monodisperse 3.0 μm $^{239}\text{PuO}_2$ particles. (C21). 469778
- Toxicity of inhaled $^{90}\text{SrCl}_3$ in beagle dogs. XI. (C21). 469775
- Toxicity of inhaled ^{90}Sr in fused aluminosilicate particles in beagle dogs. VIII. (C21). 469788
- Toxicity of injected $^{137}\text{CsCl}$ in beagle dogs. X. (C21). 469783
- blood flow**
- Arterial and venous blood pressure and blood flow following femoral angiography with a new non-ionic contrast medium. (C61). 491285
- blood-plasma clearance**
- A comparison of positron-emitting blood pool imaging agents. (C62). 484737
- carbon 14**
- Influence of cardiac glycosides on tissue distribution and elimination of canrenoate. (C21). 469762
- external irradiation**
- Treatment of acute lung injury from external gamma irradiation with an inhaled corticosteroid. (C14). 469657
- internal irradiation**
- Toxicity of inhaled $^{91}\text{YCl}_3$ in beagle dogs. XI. (C21). 469776
- Toxicity of inhaled $^{90}\text{SrCl}_3$ in beagle dogs. XI. (C21). 469775
- Toxicity of inhaled $^{144}\text{CeCl}_3$ in beagle dogs. XI. (C21). 469782
- kidneys**
- Poteinuria following nephroangiography. III. (C61). 473355
- radioimmunoassay**
- Detection of immune complexes in sera of dogs with rheumatic and neoplastic diseases by ^{125}I -Clq binding test. (C62). [Data] 487744
- radionuclide kinetics**
- A comparison of positron-emitting blood pool imaging agents. (C62). 484737
- Patterns of dose after inhalation of monodisperse or polydisperse aerosols of $^{241}\text{AmO}_2$ by beagle dog. II. (C21). 469774
- uses**
- Use of canines for explosives detection in the personnel access control function at a nuclear facility. (F41). 462043
- DQLOMITE:**
- adsorption**
- Controlled sample program publication No. 1: characterization of rock samples. (E52; Interlaboratory methodology comparison for measuring radionuclide distribution in rocks). 461934
- Mineral-contributed anion effects on the retention of trivalent actinides in the environment. (C52, E52, B31). [Data] 480091
- thermoluminescence**
- Improvement of TLD precision using a new type of TL standard. (E41). 463724
- DOMAIN STRUCTURE:**
- ferroelectric materials**
- Automated system for electrical field-polarization studies in ferroelectrics. (B23). 476372
- neutron diffraction**
- A method for observing the ferroelectric domain structure by using a time-of-flight neutron diffractometer. (A13). [Data] 474702
- polarization**
- Automated system for electrical field-polarization studies in ferroelectrics. (B23). 476372
- DOMESTIC ANIMALS:**
See also CALVES; CATTLE; COWS; GOATS; SHEEP; SWINE
- DOMINANT MUTATIONS:**
- biological repair**
- Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- radiation effects**
- Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- DOPA:**
- radioassay**
- Radioenzymatic assay of DOPA (3,4-dihydroxyphenylalanine). (C62; Tritium tracer techniques). 470113
- DOPAMINE:**
- radioimmunoassay**
- Development of an enzyme-radioimmunoassay for the measurement

- of dopamine in human plasma and urine. (C62). 470094
- DOPED MATERIALS:**
- crystal field**
- Crystal field constants calculation in the spin-Hamiltonian for Eu^{2+} in alkali-halide crystals. (A13). 477941
- electrical properties**
- Electrical property studies of neutron-transmutation-doped silicon. (B15, B22, E41). 460612
- Electrical properties of indium doped lead tin telluride. (A13). 464226
- ferrite garnets**
- Thermal and magnetic properties of Nd^{3+} in doped garnets. (A13). 477874
- fluorescence**
- Luminescence analysis of LiCl:Ag single crystal using synchrotron radiation. (A13). 459818
- hamiltonians**
- Crystal field constants calculation in the spin-Hamiltonian for Eu^{2+} in alkali-halide crystals. (A13). 477941
- manuals**
- Production of a handbook: Nd-doped glass spectroscopic and physical properties. (F30). 488436
- neodymium**
- Fluorescence spectra of CaS:Nd phosphor. (A12). 477789
- physical radiation effects**
- Electrical property studies of neutron-transmutation-doped silicon. (B15, B22, E41). 460612
- New materials properties achievable by ion implantation doping and laser processing. (B25). 479531
- radiation effects**
- Radiation effects on impurity diffusion in silicon. (A13). 467475
- self-diffusion**
- Spatial-diffusion measurements in impurity-doped solids by degenerate four-wave mixing. (B24). 465707
- silver additions**
- Luminescence analysis of LiCl:Ag single crystal using synchrotron radiation. (A13). 459818
- sintering**
- Sintering kinetics of pure and doped boron carbide. (B23). 494072
- tin tellurides**
- Electrical properties of indium doped lead tin telluride. (A13). 464226
- DOPING (CRYSTAL):**
See CRYSTAL DOPING
- DOPPLER BROADENING:**
- confinement time**
- Doppler temperature and particle confinement time determined from measurements of $\text{H}_{\text{sub}}(\alpha)$ -line on a tokamak plasma in the JFT-2a device. (A14). 464373
- DOPPLER COEFFICIENT:**
- Spectral fine-structure effects on material and Doppler reactivity worths. (E21; Fast reactors). 461588
- DORIS STORAGE RING:**
- DORIS at 5 GeV. [Data] 470375
- particle properties**
- The smallest units of matter. (A20, A11). 481345
- DOSE COMMITMENTS:**
- computer calculations**
- AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). [Data] 469787
- DOSE DISTRIBUTIONS:**
See RADIATION DOSE DISTRIBUTIONS
- DOSE EQUIVALENTS:**
- calibration standards**
- Neutron fields available at the National Physical Laboratory and the need for low energy neutron standards. (A34, E21). [Data] 483827
- chemical dosimeters**
- Determination of the integral dose with a body phantom using Fricke's system and an evaluation by means of potentiometric analysis. (D15, C45, E41). 461459
- he-3 counters**
- Instrument to determine the dose equivalent or dose rate equivalent of neutrons. (E41). 461828
- populations**
- Population dose equivalent due to accelerator operations at KEK. (C55). 482268
- radiation dose units**
- Dose equivalent unit. (C53). 487621
- Dose equivalent unit. (C53). 467631
- radiation monitoring**
- Detection limits and their dose equivalents in environmental radioactivity monitoring. (C52). 491152
- radiotherapy**
- Determination of the qualitative characteristics (LET, QF, Dose Equivalent) of a beam Bremsstrahlung photons for medical uses, by simulating its creation and transport. (C11, C55). [Data] 465918
- response matrix method**
- Interpretation of multidetector technique readings for dose equivalent determination. (E41, D15). 485072
- DOSE FRACTIONATION:**
See FRACTIONATED IRRADIATION
- DOSE LIMITS:**
- a-bomb survivors**
- Dose limits and Quality Factors: the Devil's view. (C11, C55). 460960
- icrp**
- ICRP dose limits from 1934 up to 1977. (C53). 480173
- DOSE RATEMETERS:**
- Radiation dose measuring and alarm instrument with separate circuits for measuring dose and dose rate. (E41). 485070**
- alarm systems**
- Battery operated warning equipment for ionised radiation with acoustic indicating device to increase the volume of the warning sound. (E41). 474074
- analog-to-digital converters**
- A digital display adaptor for the Victoreen 440 survey meter. (E41). 492059
- calibration standards**
- X and γ reference radiations for calibrating dosimeters and dose ratemeters and for determining their response as a function of photon energy. (D15, E41). 470248
- electronic circuits**
- Evaluation of a portable neutron spectrometer/kerma-rate meter. (E41, E13). 466826
- neutrons**
- Assessment of rem-meters for direct measurement of neutron dose equivalent rates. (E41). 477346
- specifications**
- Nuclear Enterprises portable dose rate meter type PDR 2. (E41). 470845
- DOSE RATES:**
- computer calculations**
- Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities. (C21, B33, B31, B32, C52; Conversion factors are given for dose rates to 21 organs from 240 different radionuclides for 3 different modes of exposure). 466207
- [Data]
- control systems**
- Variable aperture fluoroscopic unit for reduced patient exposure. (C15, C60, D14, E42). 469721
- electrons**
- Direct measurements of $f(z)$ for fast electrons. (C11, C55). [Data] 465878
- radiation detectors**
- Gamma ray dose-rate measurement using a diamond radiation detector. (E41). [Data] 470903
- radiation effects**
- Dependence of solid irradiation effect on energy endowing ratio. (A13). 488999
- radiation protection**
- Radiation Quality and Quality Factor. (C11, C55). 460993
- radiosensitivity**
- Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019
- Different effects of dose rate on radiation-induced mutation frequency in various germ-cell stages of the mouse, and their implications for the analysis of tumorigenesis. (C14). 487227
- Effect of dose rate on survival time in the fathead minnow, *Pimephales promelas*. (C14; γ radiation). [Data] 472946
- Effects of dose rate on hematopoietic stem cells: preliminary results. (C14; Whole-body ^{60}Co γ irradiation of mice). 472944
- Life shortening in RFM and BALB/c mice as a function of radiation quality, dose, and dose rate. (C14). [Data] 476571
- Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction. (C14, C63, C15). 487212
- Repair of sublethal damage in mammalian cells irradiated at ultrahigh dose rates. (C11; Chinese hamster ovary cells). [Data] 472905
- Suppression of the pulmonary clearance of *Staphylococcus aureus* in mice that had inhaled either $^{144}\text{CeO}_2$ or $^{239}\text{PuO}_2$. (C21). 476617
- Testing of dose-rate models with *Chlamydomonas reinhardtii*. (C12; Electrons). 461010
- x-ray dosimetry**
- Determinations of the dose mean of specific energy for conventional X-rays by variance-measurements. (C11, C55). [Data] 465888
- x-ray tubes**
- Determination of the quality of radiation and the dose rate in radiodiagnostics and radiotherapy by means of thermoluminescence dosimeters. (E41, C45). 461823
- DOSE-RESPONSE RELATIONSHIPS:**
- alpha decay radioisotopes**
- Lung cancers induced by various inhaled alpha emitters. Evaluation of the effect of various parameters and comparison with data obtained from uranium miners. (C15). [Data] 482067
- carcinogenesis**
- Time and dose factors in carcinogenesis. (C15, C14). 487236
- chromosomal aberrations**
- Dose-effect relationships for malignancy in cells with different genetic characteristics. (C11). 481979
- dose rates**
- Calculation of the dose-rate dependence of the dicentric yield after $\text{Co } \gamma$ -irradiation of human lymphocytes. (C11). [Data] 463036
- fractionated irradiation**
- Comparative trial of large and small fractions in the radiotherapy of head and neck cancer. (C63). [Data] 463472
- low dose irradiation**
- DNA repair and the assessment of the biological hazards of ionizing radiation. (C11). 481994
- Experiments for the quantitative assessment of the effects of radiation on the fertility and fecundity of aquatic organisms.

- (C14). 484508
The quadratic low-LET dose-effect relation for life shortening in mammals. Implications for the assessment of the low-dose hazard to human populations. (C14). [Data] 482045
- mathematical models**
Dose-response relationship of neutrons and γ rays to leukemia incidence among atomic bomb survivors in Hiroshima and Nagasaki by type of leukemia, 1950-1971. (C15). [Data] 476584
Effects of source distribution, dose, and linear energy transfer capacity on inactivation and mutation of mycobacteria after ^2H , ^{35}S , and ^{32}P incorporation. (C21, D15). 482101
Testing of dose-rate models with *Chlamydomonas reinhardtii*. (C12; Electrons). 461010
- mice**
Chemical protection against life shortening and causes of death after a single or fractionated whole-body exposure of mice to ionizing radiation. (C14). [Data] 482036
A comparative study of the late somatic effects of whole-body X-irradiation and radiation protection by aminoethylisothiuronium (AET) and 5-hydroxytryptamine (5-HT) in inbred female Swiss mice. (C14). [Data] 482042
- risk analysis**
Hazard-function method of resolving radiation dose-response curves. (C15, C55, C21). 487273
- skin**
Comparison of the incidence and time patterns of radiation-induced skin cancer in humans and rats. (C15). [Data] 482058
- statistics**
Dose-response curves from incomplete data. (C11, F51). 481982
- theoretical data**
Fundamental aspects of cancer induction in relation to the effectiveness of small doses of radiation. (C11). 481978
- ultrasonic waves**
Effect of ultrasound on ionizing radiation effects, 4. (C14). 476559
- DOSIMETERS:**
See also *ALBEDO-NEUTRON DOSIMETERS*; *BIOLOGICAL DOSIMETERS*; *BRAGG GRAY CHAMBERS*; *CALORIMETRIC DOSIMETERS*; *CHEMICAL DOSIMETERS*; *CONDENSER IONIZATION CHAMBERS*; *EXO-ELECTRON DOSIMETERS*; *EXTRAPOLATION CHAMBERS*; *LUMINESCENT DOSIMETERS*; *PHOTOGRAPHIC FILM DOSIMETERS*; *RPL DOSIMETERS*; *THERMOLUMINESCENT DOSIMETERS*
AERE neptunium dosimeter. (E41). 488246
Approach to a personnel neutron monitor based on a nuclear track detector. (E41). 488249
Improvements of the electrochemical etching technique for fast neutron dosimetry. (E41). 488248
Metrological ensuring of radiation-technological processes and productions. (E41). 480749
Multichannel dosimetric measuring device and its applicability in radiation protection. (C55). 469996
Recent trends in dosimetric instrumentation. (E41, E42). 461856
- alarm systems**
An arrangement including a dosimeter useful for the indication of radiation doses. (E41). 492176
Battery operated warning equipment for ionised radiation with acoustic indicating device to increase the volume of the warning sound. (E41). 474074
- background radiation**
Pocket dosimeter measures radiation. (E41). 463700
- calibration**
Fifteenth nuclear accident dosimetry intercomparison study: August 14-22, 1978. (E41). 492159
Method for measuring dose-equivalent in a neutron flux with an unknown energy spectra and means for carrying out that method. (E41; Patent). 488234
NBS reference neutron fields for personnel dosimetry calibration. (E41, D15). 488270
A novel gamma irradiation facility. (D14). 470240
Tour of the Standards and Calibrations Laboratory. (E41). 488236
- calibration standards**
National primary standards and calibration of therapy level dosimeters. (C55). 484698
X and γ reference radiations for calibrating dosimeters and dose ratemeters and for determining their response as a function of photon energy. (D15, E41). 470248
- comparative evaluations**
Comparison of methods for depth dose determination. (C55). 494464
- digital systems**
Digital neutron dosimeter. (E41). [Data] 461853
- electrets**
Electret dosimeter and its principle. (E41). 492110
- fast neutrons**
Polycarbonates as fast neutron dosimeters. (E41). 463711
- mos transistors**
Increasing sensitivity of MOS dosimeters in cascade connection. (E41). 480791
- neutron dosimetry**
Recent developments in personnel neutron dosimeters - a review. (E41, C55). [Data] 488243
- performance testing**
Pocket-sized electronic dosimeter testing. Final report, March 1978-December 1978. (E41). 466812
Testing of a gamma absorptiometer. (E41). [Data] 463748
- personnel dosimetry**
New concept of dosimetric systems introduced in the UVVVR countrywide personnel dosimetry service. (C55). 463445
- polycarbonates**
Polycarbonates as fast neutron dosimeters. (E41). 463711
- radiotherapy**
National primary standards and calibration of therapy level dosimeters. (C55). 484698
- sensitivity**
The fast neutron sensitivity of a Geiger-Mueller counter photon dosimeter by the time-of-flight technique. (E41). 492121
A modified lead attenuation method to determine the fast neutron sensitivity ksub(U) of a photon dosimeter. (E41). 492109
- specifications**
Victoreen panoramic 470 A survey meter. (E41). 470844
- time measurement**
An electronic timer for use with the Farmer dosimeter Type 2502/3. (E41). 477407
- DOSES (RADIATION):**
See *RADIATION DOSES*
- DOSIMETERS:**
See *DOSEMETERS*
- DOSIMETRY:**
See also *ALPHA DOSIMETRY*; *BETA DOSIMETRY*; *ELECTRON DOSIMETRY*; *FILM DOSIMETRY*; *GAMMA DOSIMETRY*; *ION DOSIMETRY*; *MICRODOSIMETRY*; *NEUTRON DOSIMETRY*; *PERSONNEL DOSIMETRY*; *PION DOSIMETRY*; *THERMOLUMINESCENT DOSIMETRY*; *X-RAY DOSIMETRY*
Dosimetry. (C55). 482275
Local dose to lung tissue from inhaled $^{238}\text{PuO}_2$ particles. (C21; Hamsters). 469745
Lyoluminescence. (E41). 488224
Radiation shielding and dosimetry. (D15, A32; Book). 480301
- accuracy**
Uncertainties in estimating working level months. (C55). 461356
- analytical solution**
Methods of dosimetry for aquatic organisms. (D15, C22). 484787
- biological dosimeters**
Status of human chromosome aberrations as a biological radiation dosimeter in the nuclear industry. (C15, C21). 469682
- calibration standards**
Accelerator-based dosimetry Benchmarks. (A34, E21). [Data] 483862
Fast neutron standard fields at the accelerators of the PTE. (A34, E21). 483855
Survey of radiation dosimetry status in radiotherapy centres in India. (C55, D15). 461359
- computer calculations**
Experience in computer application to dosimetric planning of radiotherapy. (C55, C63). 494466
Internal dosimetry data and methods of ICRP. Part 1. (C21, D15). 487285
- computers**
The computer as an active element in dosimetry. (C55). 487648
- electric conductivity**
SHF measuring exposure dose rate of ionizing radiations. (E42, E21). 488288
- equations**
Absorbed dose equations. The general solution of the absorbed dose equation and solutions under different kinds of radiation equilibrium. (C55). 480186
- interfaces**
Interface dosimetry. (C55). 473301
- international cooperation**
Hungarian-Austrian cooperation in health physics dosimetry. (E41, F61). 474133
- iodine 121**
Production of I-121 on the Heidelberg compact cyclotron, and aspects of I-121 dosimetry. (D13). [Data] 491392
- iodine 123**
Production of I-121 on the Heidelberg compact cyclotron, and aspects of I-121 dosimetry. (D13). [Data] 491392
- ionizing radiations**
Handbook on dosimetry. (C55). 494469
- limiting values**
Minimum dosimetric quantities. (C55). 480188
- lubricating oils**
Radiation effects on a lubricating base oil and their application in radiation dosimetry β . (B14). 493801
- lyoluminescence**
On a possibility of measuring dose in the case of accidental irradiation. (C55). 480185
- maritime transport**
Suggestions of radiation protection instruments in ships used for transporting spent fuel elements from nuclear power plants to central stores and further to fuel reprocessing plants. (E51). 492245
- mathematical models**
Parametrisation of linear accelerator electron beam for computerised dosimetry calculations. (C55, E16). 491250
- neutron therapy**
Estimated dose to bone and whole body via ^{40}Ca and ^{31}P for 14.1 MeV neutrons. (C55, C63). 463427
- nuclear data collections**
Summary remarks and recommended reactions for an international data file for dosimetry applications for LWR, FBR, and MFR reactor research, development and testing programs. (A34, E21). 483902
- nuclear medicine**
Prospects for clinical dosimetry development. (C55). 494478
- radiation dose units**
SI units in radiology. (C53). 463399
SI units in the study of radiation protection. (C55). 491232
- radiation sources**
Survey of radiation dosimetry status in radiotherapy centres in India. (C55, D15). 461359

- reviews
Ionizing radiation dosimetry. (C55). 480197
standardized terminology
Output factors and scatter ratios. (C55, C63). 491256
tellurium 121
Production of I-121 on the Heidelberg compact cyclotron, and aspects of I-121 dosimetry. (D13). [Data] 491392
- DOUBLE RESONANCE METHODS:**
(Simultaneous excitation of two resonance transitions of different frequencies increasing the sensitivity of high frequency spectroscopy.)
nuclear magnetic resonance
Cross-relaxation in nuclear magnetic double resonance. (A13). 485592
Nuclear magnetic double resonance spectroscopy. (A13). 485586
research programs
Microwave-optical double resonance spectroscopy. Progress report, February 1, 1978 - January 31, 1979. (B12). 479025
reviews
Nuclear magnetic double resonance spectroscopy. (A13). 485586
rf systems
The scattering of γ -rays in the regime of double resonance. (A13). 481067
- DOUBLET-2 DEVICE:**
(Octupolar configuration)
high-frequency heating
Lower hybrid wave heating in Doublet IIA. (A14). 464418
- DOUBLET-3 DEVICE:**
atomic beam sources
Doublet III neutral beam injection system overview and status report. (A14). 467561
reactor maintenance
Developing maintainability for tokamak fusion power systems. Phase II report. Volume II: study results. (A14). 485715
remote handling
Conceptual design study of a doublet fusion ignition test reactor. (A14). 459983
specifications
Conceptual design study of a doublet fusion ignition test reactor. (A14). 459983
Doublet demonstration fusion power reactor. (A14). 475065
Doublet demonstration fusion power reactor study. (A14). 459899
- DOUNREAY FAST REACTOR:**
See DFR REACTOR
- DOUNREAY PROTOTYPE FAST R.:**
See PFR REACTOR
- DOWEX:**
See ORGANIC ION EXCHANGERS
- DPO:**
See ORGANIC PHOSPHORUS COMPOUNDS
- DRAE EFFECT:**
See ELECTROPHORESIS
- DRAGON REACTOR:**
coated fuel particles
Reviews of investigations on the coating of fuel particles. (B23, E33). 490659
containment systems
The containment safety of the Dragon Reactor. (E33). 488087
dispersion nuclear fuels
Advances in HTR fuel matrix technology. (E33). 488106
fabrication
The development of the production process for the thorium/uranium dicarbide fuel kernels for the first charge of the Dragon Reactor. (B22, E33). 490564
fuel elements
Safety assessment for Dragon fuel element production. (E33, C52). 491935
Safety assessment for Dragon fuel element production. (E33, C52). 491936
Safety of operations in the manufacture of driver fuel for the first charge of the Dragon Reactor and modifications to the safety document for the Dragon Fuel Element Production Building. (E33, C52). 488084
The safety of operations in the Dragon fuel element production building during the manufacture of thorium fuel for the first charge of the Dragon Reactor experiment. (E33, C52). 488083
fuel pellets
The development of the production process for the thorium/uranium dicarbide fuel kernels for the first charge of the Dragon Reactor. (B22, E33). 490564
Exploratory experiments on the feasibility of Th and Pu sol-gel particles. (B23, E33). 490678
nuclear fuels
The safety of operations in the Dragon fuel element production building during the manufacture of thorium fuel for the first charge of the Dragon Reactor experiment. (E33, C52). 488083
Safety of operations in the manufacture of driver fuel for the first charge of the Dragon Reactor and modifications to the safety document for the Dragon Fuel Element Production Building. (E33, C52). 488084
planning
Development of the design of the High Temperature Gas Cooled Reactor experiment. (E33). 488097
reactor cooling systems
The heat removal system of the O.E.C.D. High Temperature Reactor Dragon. (E33). 488098
reactor operation
Achievements of the Dragon Project. (E33). 463650
- specifications
Gas Reactor International Cooperative Program. Interim report. Construction and operating experience of selected European Gas-Cooled Reactors. (E33). 491930
- DRELL MODEL:**
Decay distributions for lepton pairs and quark transverse momentum. (A21). 489772
corrections
Gluon corrections to the Drell-Yan model. (A21, A11). [Data] 464820
extrapolation
On the Q^2 -extrapolations of AF-corrected Drell-Yan processes. (A21). [Data] 483648
- DRESDEN-1 REACTOR:**
Dresden 1 Radiation Level Reduction Program. Intergranular corrosion tests of sensitized Type-304 stainless steel in Dow NS-1, and stress corrosion cracking tests of Type-304 stainless steel and carbon and low alloy steels in Dow copper rinse solution. (E31, B15). 480636
coolant cleanup systems
Chemical cleaning of the corrosion fatigue loop at Dresden-1. Volume 2, sections 7.0 - 7.2. (E31). 494936
coolant loops
Chemical cleaning of the corrosion fatigue loop at Dresden-1. Volume 1, Sections 1-6. (E31). 494935
decontamination
Chemical cleaning of the corrosion fatigue loop at Dresden-1. Volume 2, sections 7.0 - 7.2. (E31). 494936
Man-rem estimate for the Dresden 1 chemical cleaning. (E31). 461671
Radiation level assessment of the Dresden-1 decontamination loop. (E31). 461670
primary coolant circuits
Commonwealth Edison pioneers reactor cleaning in the US. (E31). 491844
radioactivity
Radiation level assessment of the Dresden-1 decontamination loop. (E31). 461670
surface cleaning
Man-rem estimate for the Dresden 1 chemical cleaning. (E31). 461671
- DRIFT (ELECTRON):**
See ELECTRON DRIFT
- DRIFT (PLASMA):**
See PLASMA DRIFT
- DRIFT CHAMBERS:**
Multiwire drift chamber with a large drift gap. (E41). 477330
Multiwire proportional chambers and drift chambers. (E41). 492071
analog-to-digital converters
Multichannel analog to digital converter and readout system for the time projection chamber. (E41). 488261
data processing
Data handling for the wide-angle hall jet experiment. (E41, E16). 466766
M7 - a high speed digital processor for second level trigger selections. (E41). 470860
delay circuits
Delay line readout for drift chambers. (E41). 461836
efficiency
Load characteristics of a multiwire drift chamber with the 250 mm drift gap. (E41). 477329
electron drift
Calculation of electron transport coefficients in counting gas mixtures. (E41). 470917
Systematic measurement of electron drift velocity and study of some properties of four gas mixtures: A-CH₄, A-C₂H₄, A-C₂H₆, A-C₃H₈. (E41). 470894
electron transfer
Some basic aspects of drift chamber operation. (E41). 474077
energy resolution
Time expansion chamber and single ionization cluster measurement. (E41). 470969
- DRIFT**
Ambiguities in drift chambers due to high event rates. (E16, E41). 494795
fabrication
1.6x0.8 m two-coordinate drift chamber. (E41). 495053
gases
Fast gas mixtures for gas-filled particle detectors. (E41). 492072
nuclear instrument modules
Electronics for data reading from drift chambers. (E41). 492066
particle tracks
Track-finding program for the central drift chamber. (E41). 474068
performance
Performance of a time-projection chamber. (E41). 485059
PWCs and drift chambers at ISABELLE. (E41, E16). 474109
planning
Detector development summary. (E41). 466818
readout systems
Cylindrical drift chambers with two dimensional readout. (E41). 466824
Delay line readout for drift chambers. (E41). 461836
Second coordinate readout in drift chambers by charge division. (E41). 480781
spatial resolution
Transition radiation registration by means of a drift chamber with space resolution 20 μ m. (E41). 461815
specifications
Cell structure for the MAC central drift chamber. (E41). 488238
Directional drift chambers. (E41). 466753

- A large cylindrical drift chamber for the Mark II detector at SPEAR. (E41). 477339
- Performance of a time-projection chamber. (E41). 485059
- A self-triggered liquid xenon drift chamber by the use of proportional ionization or proportional scintillation. (E41). 474105
- transition radiation**
- Review of papers on x-ray transition radiation and detectors carried out in Soviet Union. (E41, A32). 470812
- XTR detection by means of 20 μ m resolution drift chamber. (E41). 470832
- DRIFT INSTABILITY:**
- Destruction of cyclotron resonances in weakly collisional, inhomogeneous plasmas. (A14). 485737
- Nonlinear stabilization of drift waves. (A14). 489316
- Quadratic form for resisting drift modes in a slab with magnetic shear. (A14). 467587
- Resistive drift-Alfvén waves in sheared magnetic fields. (A14). 485674
- Theory of drift and trapped-electron instabilities. (A14). 459875
- Turbulent convective transport in a plasma. (A14). 483305
- Unstable drift waves in a sheared magnetic field. (A14). 464394
- Unstable drift waves in a sheared magnetic field. (A14). 467603
- analytical solution**
- Analytical theory of drift waves and drift Alfvén waves in tokamaks. (A14). 459934
- beta ratio**
- Finite beta effects on the drift-cyclotron instability. (A14). 475022
- collisional plasma**
- Numerical analysis of nonlinear collisional drift instability. (A14). 489284
- [Data] Shear stabilization of collisional drift instability. (A14). 464355
- compton effect**
- Renormalized Compton scattering and nonlinear damping of collisionless drift waves. (A14). 485758
- damping**
- Renormalized Compton scattering and nonlinear damping of collisionless drift waves. (A14). 485758
- Shear damping of two-dimensional drift waves in a large-aspect-ratio tokamak. (A14). 483350
- dispersion relations**
- Electrostatic temperature gradient drift instabilities. (A14). 489164
- eigenfunctions**
- Impurity effects on ion-drift-wave eigenmodes in a sheared magnetic field. (A14). 485822
- Stability of drift-wave eigenmodes with arbitrary radial wavelengths. (A14). 485763
- eigenvalues**
- Current-driven drift modes in sheared magnetic field. (A14). 485720
- Variational calculation of drift wave eigenvalues. (A14). 478158
- electron temperature**
- Drift wave instabilities in a plasma of two-temperature electrons. (A14). 475149
- elmo bumpy torus**
- Point model calculations of EBT performance. (A14). 489257
- hybrid resonance**
- Lower hybrid drift instability in the ionosphere. (A14). 489181
- instability growth rates**
- Warm plasma effects on drift cyclotron loss cone mode. (A14). 478138
- ionosphere**
- Electrostatic drift waves around the lower hybrid resonance frequency in the ionosphere. (B33, A14). 460929
- magnetic fields**
- Magnetic gradient effects on the universal drift instability. (A14). 464513
- Turbulent destabilization and saturation of the universal drift mode in a sheared magnetic field. (A14). 475039
- nonlinear problems**
- Numerical analysis of nonlinear collisional drift instability. (A14). 467643
- plasma drift**
- Effects of radial electric field on drift wave instability in a weakly ionized plasma. (A14). 464434
- spatial distribution**
- Current-driven drift modes in sheared magnetic field. (A14). 485720
- stability**
- Analysis of the stabilization of the drift-cone mode by the injection of rf power. (A14). 489185
- Analytic eigenvalue equations for collisionless drift waves in tokamaks. (A14). 471621
- Minimum streaming current requirements for MFTF-revised by recent (r /sub p /a/sub i /) scaling in 2XIIB. (A14). 471700
- transport theory**
- Drift wave stability and transport theory in fusion systems. (A14). 464384
- [Data]
- trapped-particle instability**
- Localized trapped electron drift instability. (A14). 464404
- turbulence**
- Turbulent destabilization and saturation of the universal drift mode in a sheared magnetic field. (A14). 475039
- variational methods**
- Variational calculation of drift wave eigenvalues. (A14). 478158
- DRIFT TUBES:**
- ion pairs**
- Measurements of ion clustering reactions using the drift tube method ($K^+ + H_2O + N_2$). (A12). 467299
- DRILLING (ROCK):**
- See ROCK DRILLING
- DRINKING WATER:**
- chemical analysis**
- Analyses of quality control samples at EML and contractor laboratories during 1978. (B11, C22, B32, B33). [Data] 475878
- contamination**
- Advisory report on the health effects of radium 226 in drinking water. (C21, B32). 487291
- Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
- dual-purpose power plants**
- Multipurpose plant for simultaneous electricity and drinking water generation on the basis of nuclear fuel. (F11). 482934
- gamma detection**
- Designing instruments for measuring activity of liquids. (E41). 485069
- monitoring**
- Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). [Data] 479676
- natural radioactivity**
- Geologic studies to identify the source for high levels of radium and barium in illinois ground-water supplies: a preliminary report. Final report. (B32, C52). 487131
- radiation monitoring**
- Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). [Data] 479676
- radioactivity**
- Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
- Radiostrontium in milk and tap water. (C22, B32; Monitoring of contamination (fallout) in samples collected daily in New York City). [Data] 476624
- Sequim Marine Research Laboratory routine environmental measurements during CY-1978. (C22, B31, B33, C52; Monitoring for laboratory-related radioactivity and pollutants in environment). 473107
- Survey of drinking water radioactivity in the districts of Varna, Shumen, Tolbukhin and Tyrgovishte water supplies for the period 1970-1975. (C22). 466235
- radon 222**
- Eventual physiological properties of radon dissolved in drinking water. (C21, C22). 469748
- seawater**
- Multipurpose plant for simultaneous electricity and drinking water generation on the basis of nuclear fuel. (F11). 482934
- strontium 90**
- ^{90}Sr and ^{137}Cs in service water. (B32). [Data] 490832
- water pollution**
- Sequim Marine Research Laboratory routine environmental measurements during CY-1978. (C22, B31, B33, C52; Monitoring for laboratory-related radioactivity and pollutants in environment). 473107
- DROPLETS:**
- chemisorption**
- Gas absorption characteristics with a spray sprinkling system. (E32). 463629
- heat transfer**
- Heat and mass transfer involving droplets containing soluble solids. (E11). 480347
- Heat removal effect of reactor container spray. (E22). 463580
- mass transfer**
- Heat and mass transfer involving droplets containing soluble solids. (E11). 480347
- splat cooling**
- A simple Splat-cooling equipment. (E42). 482886
- DROSOPHILA:**
- biological radiation effects**
- Genetic control of chromosome breakage and rejoining in *Drosophila melanogaster*: spontaneous chromosome aberrations in X-linked mutants defective in DNA metabolism. (C14; X and uv radiation). [Data] 472951
- Mutational analysis of the triple-lethal region of *Drosophila melanogaster*. (C14; Gamma radiation). [Data] 487218
- chromosomal aberrations**
- Genetic control of chromosome breakage and rejoining in *Drosophila melanogaster*: spontaneous chromosome aberrations in X-linked mutants defective in DNA metabolism. (C14; X and uv radiation). [Data] 472951
- Origin of meiotic nondisjunction in *Drosophila* females. (C14). 469636
- Position effects at the hairy locus in *Drosophila melanogaster*. (C14; X radiation). 469640
- life span**
- The genetics of aging in optimal and stressful environments. (C12). [Data] 461019
- mutations**
- Mutational analysis of the triple-lethal region of *Drosophila melanogaster*. (C14; Gamma radiation). [Data] 487218
- Origin of meiotic nondisjunction in *Drosophila* females. (C14). 469636
- radappertization**
- Failure of irradiated beef and ham to induce genetic aberrations of *Drosophila*. (C43). 494368
- salivary glands**
- Bands and condensed chromatin as sites of transcription in polytene chromosomes of *Drosophila*. (C31). 482116
- spontaneous mutations**
- Specific-locus mutations at the alcohol dehydrogenase locus in *Drosophila melanogaster*. (C14). 484499

- whole-body irradiation**
Bristle patterns and compartment boundaries in the tarsi of *Drosophila*. (C14). 490962
- DRUGS:**
See also more specific entries as listed in the INIS Thesaurus.
- biological effects**
Induction of interferon by levamisole in mice. (C14; X radiation). 472966
- biomedical radiography**
Clinical pharmacangiography (results of 1500 investigations). (C61). 480249
- forecasting**
Criteria for optimal control in physiological systems in the estimation of radiation injury and in the choice of the most effective radioprotectors. (C14, C15). 469656
- gamma radiation**
The gamma irradiation of cephalosporins. (C45). 463342
- isotope effects**
Mass spectrometric determination of a kinetic isotope effect in microsomal conversion of tremorine to oxotremorine. (B11). 478826
- metabolism**
Influence of structural modifications on a lipid lowering drug pharmacokinetics. (C31). 491067
- neoplasms**
Pharmacokinetic considerations in testing hypoxic cell radiosensitizers in mouse tumours. (C14, C63). 476548
- nucleosides**
Potential radiosensitizing antiviral and anticancer pyrimidine nucleosides. Final report, June 1, 1974 - May 31, 1978. (B12, C60, C12). 468832
- quantitative chemical analysis**
Quantitative analysis of abused drugs in physiological fluids by gas chromatography/chemical ionization mass spectrometry. (B11). 478809
- radioassay**
A radioreceptor assay for diazepam and its metabolites in serum. (C45). 469884
- radioimmunoassay**
The specific radioimmunoassay in pharmacokinetics. Its potency, requirements and development for routine use as illustrated by an assay for Pirenzepin. (C45). 487335
- radiosensitivity**
Drug-induced chimerism and prevention of graft-versus-host disease in lethally irradiated mice transplanted with rat bone marrow. (C14; Gamma radiation). 479851
Effect of lucanthone on the radiation response of intestinal stem cells in Chinese hamsters. (C14; X-rays). 469653
Effect of selected drugs on first-stage radiooemesis in beagle dogs. (C14; Following x irradiation of abdomen). [Data] 490953
Short-term radioprotective effects of WR-2721 on the rat parotid glands. (C14; X radiation). 469667
- response modifying factors**
Radioprotective possibilities of some biogenic stimulants in acute and chronic irradiation. (C14). 482041
- sterilization**
The gamma irradiation of cephalosporins. (C45). 463342
The influence of radiation treatment on drugs and drug additives. Pt. 2. (C45, B14). 466265
Radiation sterilization. (C45). 482175
- storage life**
Stability characteristics of the preparation pyrimetin. (C15). 466152
- therapy**
Increased serum oestrone and oestradiol following spironolactone administration in hypertensive men. (C45). 463344
- DRY ASHING:**
activation analysis
Loss of the elements in low temperature plasma ashing. (B11). 472353
- DRYOUT:**
fuel element clusters
WSC-2: a subchannel dryout correlation for water-cooled clusters over the pressure range 3.4-15.9 MPa (500-2300 PSIA). (E31, E32). [Data] 482735
- heat transfer**
Post dryout heat transfer in fuel rod clusters. (E23). [Data] 480603
- DTA:**
See DIFFERENTIAL THERMAL ANALYSIS
- DTPA:**
aerosols
Nasal absorption of DTPA in rats and beagle dogs. (C21). 469747
- biological effects**
Experimental studies of the use of DTPA and other agents to limit the systemic burden of plutonium after wound contamination. (C21; Nicotinoxyhydroxamic acid; para-butoxyphenylacetohydroxamic acid; calcium N-acetyl-6-amino-hexanoate). [Data] 479939
- Therapy of poisoning by radioactive and nonradioactive metals.**
(C21). 466191
- Two ²³⁸Pu inhalation incidents. (C21, C54). [Data] 494331
- Uptake and distribution of californium-252 chloride administered intraperitoneally, intravenously or intratracheally and the effect of in vivo DTPA chelation on intratracheal instillation in the rat. (C21). 473054
- biological localization**
The work at NRPB on development of new chelating agents. (C21). 491013
- chemical analysis**
Determination of DTPA in urine by paper chromatography. (B11). [Data] 472386
- inhalation**
Nasal absorption of DTPA in rats and beagle dogs. (C21). 469747
- post-irradiation therapy**
Dependency of chelation efficacy upon time after first DTPA injection. (C21; Beagles, ²⁴¹Am, ²³⁷Pu, and ²³⁹Pu retention). [Data] 491031
- Toward an optimal DTPA therapy for decorporation of actinides: time-dose relationships for plutonium in the dog. I. (C21). [Data] 491020
- radiolysis**
Radiolysis of aqueous solutions of Co(II) and Co(III) complexes with diethylenetriaminepentaacetic acid. (B14). 476177
- radiopharmaceuticals**
Evaluation of inflammatory bowel disease with /sup 99mTc-DTPA. (C62, C31). 470114
- Renal hyperconcentration of /sup 99mTc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of /sup 99mTc-HEDP, -DMSA, and -DTPA in rabbits). 487707
- Studies on the preparation of Tc-99m-DTPA freeze-dried kit. (B13). 462751
- therapy**
Effects of orally administered 2,3-dihydroxybenzoic acid in the excretion of Am and Pu from the rat. (C21). [Data] 473093
- FDA IND approval for Zn-DTPA, new clinical agent for decorporation therapy of actinides. (C21). 487298
- The influence of DTPA on the metabolism of inhaled ²³⁹PuF₄ in beagles. (C21). 491032
- Measurements of ²⁴¹Am in vivo at long times after inhalation. (C21). 479967
- Preliminary investigation of uranium removal therapy. (C21; ²³³U, rats, DTPA, NaHCO₃, ²²⁸Th). [Data] 473038
- toxicity**
Fetal injury induced by Ca-DTPA in dogs. (C21). [Data] 461110
- Zn-DTPA safety in the mouse fetus. (C21). [Data] 476607
- uptake**
Zn-DTPA administered by slow-release implant. (C21, C31). [Data] 461085
- DUAL RESONANCE MODEL:**
exchange degeneracy
Duality, exchange-degeneracy breaking, and exotic states. (A21). 489798
- regge trajectories**
Investigations in hadron physics: bound state models for fermions; radiative corrections to pion-pion scattering. (A21). 486092
- string models**
Topics in dual models and extended solutions. (A21, A11; Infinities). 468133
- DUAL TEMPERATURE PROCESS:**
chemical effluents
H₂S transport data for an aquatic system. (C52). [Data] 480089
- optimization**
Dual pressure-dual temperature isotope exchange process and apparatus. (D12). 461446
- research programs**
Heavy water GS process R and D achievements. (D12). 463485
- simulation**
Process simulation of heavy water plants - a powerful analytical tool. (D12). 491390
- DUAL-PURPOSE POWER PLANTS:**
A new unforeseen energy: heat from mixed power plants. (E37). 474012
- candu type reactors**
Future developments in nuclear power. (E34, A14). 491952
- cost**
Conceptual design and cost study for a dual-purpose nuclear-electric reverse osmosis seawater conversion plant. (E30). 477189
- district heating**
Designing a nuclear power source with respect to heat supply reliability. (E32). 480640
- Heat supply possibilities of French nuclear power plants. (F11). 474324
- Nuclear combined heat and power generation realized - buildings heated with nuclear heat in Karlsruhe. (E36). 466741
- environmental impacts**
Applied systems analysis no. 11: Introduction of nuclear long-distance energy. (E33, C52). 470689
- mzfr reactor**
Nuclear combined heat and power generation realized - buildings heated with nuclear heat in Karlsruhe. (E36). 466741
- planning**
Engineering and safety analysis of dual-purpose nuclear desalination plants: a case study (Saudi Arabia). (E30). 494924
- specifications**
Conceptual design and cost study for a dual-purpose nuclear-electric reverse osmosis seawater conversion plant. (E30). 477189
- DUALITY:**
(Correlation between resonance poles and scattering amplitudes.)
- quark model**
Dual dynamics and the Okubo-Zweig-Iizuka rule. (A21). 460178
- quark-antiquark interactions**
On duality between resonances and free quark-antiquark pairs. (A21). 489735
- resonance particles**
On duality between resonances and free quark-antiquark pairs. (A21). 489735
- DUBNA IBR-2 REACTOR:**
See IBR-2 REACTOR
- DUBNA, JINR:**
See JINR

DUCTS:

- heating**
Method and apparatus for pre-heating ducts forming liquid sodium flow passage. (E35). 473978
- radiation transport**
Comparison of rebalance stabilization methods for two-dimensional transport calculations. (A32, E36). 460270
- rewetting**
Measurement of boiling curves during rewetting of a hot circular duct. (E11, E30). 491449

DUNGENESS-B REACTOR:

- feedwater**
Balls keep water oxygen free. (E33). 473916

DUODENUM:

See *SMALL INTESTINE*

DUOPLASMATRONS:

- cathodes**
Distributive cathodes in duoplasmatron ion sources. (E16). 491686
- copper ions**
Extraction of metal ion by duoplasmatron. (D14). 476843
- ev range 10-100**
Stationary low-energy ion source. (E16). 477015
- ev range 100-1000**
Stationary low-energy ion source. (E16). 477015
- mass spectroscopy**
Plasma source for solids bombarding by positive and negative ions. (D14, E42). 476833
- performance**
Cesium injection system for negative ion duoplasmatrons. (A12; Patent). 474604
- Improved source of metastable beam. (E16).** 480439
- specifications**
Cesium injection system for negative ion duoplasmatrons. (A12; Patent). 474604
- tritium target**
The effect of an analyzed deuterium ion beam on the lifetime of TIT targets used at the fast neutron therapy facility (DT, 14 MeV) Hamburg-Eppendorf. (D14, C63). 487787

DURENE:

- phosphorescence**
Host/guest deuteration effects on mixed crystals. (A13). 474747

DUSTS:

See also *COSMIC DUST*

- inhalation**
Biological effects of chronic inhalation of coal mine dust and/or diesel engine exhaust in rodents. (C52; Rats). [Data] 473235
- particle size**
Activity and size distributions of aerosols in the Laboratory for experimental fuels AEE Winfrith. (C52, B12). 463385
- quantity ratio**
In-service wear investigations on a vehicle's Diesel engine by means of a mobile isotope laboratory. (E17). 494890
- radioactivity**
Activity and size distributions of aerosols in the Laboratory for experimental fuels AEE Winfrith. (C52, B12). 463385
- radiometric analysis**
Simultaneous determination of alpha-emitting nuclides of radium through californium in large environmental and biological samples. (B11). 490313
- strontium 90**
⁹⁰Sr and ¹³⁷Cs in air-borne dust. (B33). [Data] 490860
- x-ray fluorescence analysis**
Multielement analysis of aerosols by X-ray fluorescence with total-reflection sample carrier. (B11, C52). 483965

DWARF STARS:

See also *WHITE DWARF STARS*

- chemical composition**
The chemical composition of twelve late F dwarfs. (A15). 467915
- Relative abundances in metal-poor stars. II. The carbon-to-iron ratio. (A15).** 475377
- hertzprung-russell diagram**
The intrinsic width of the zero age main sequence. (A15). 467780
- infrared spectra**
Near infrared spectra of O stars and related objects. (A15). 483590
- luminosity**
Nonlinear study of AI Velorum. (A15). [Data] 485857
- The structure and evolution of a slow deflagration front propagating into a degenerate star. (A15).** 489424
- Subdwarf bolometric corrections. (A15).** 485849
- metals**
An investigation of microturbulence and metal abundance in F dwarfs. (A15). 467893
- photometry**
Subdwarf bolometric corrections. (A15). 485849
- spectra**
Spectral types for faint blue stars near the Galactic anticenter. (A15). 464544
- star accretion**
Accretion discs in dwarf novae. (A15; Absolute spectrophotometry). 467844
- star evolution**
The structure and evolution of a slow deflagration front propagating into a degenerate star. (A15). 489424
- star models**
Stellar model chromospheres. IX. Chromospheric activity in dwarf stars. (A15). 489543
- stellar atmospheres**
Stellar model chromospheres. IX. Chromospheric activity in dwarf stars. (A15). 489543

stellar winds

- Near infrared spectra of O stars and related objects. (A15). 483590

ultraviolet spectra

- The main sequence at G2 V. (A15). 475286

DWBA:

neutron reactions

- Use of DWBA and DWTA for studying the contribution of direct processes in the reaction (n, 2n). (A33). 481479
- one-nucleon transfer reactions**
Spectroscopic information from one-particle transfer reactions. (A33). 493219

DYE LASERS:

(Based on transitions between vibrationally broadened electronic states of polyatomic molecules.)

hysteresis

- First- and second-order phase transitions in the Dicke model: Relation to optical bistability. (A11). 488561

line narrowing

- Line tuning and line narrowing of dye laser utilizing the dispersion of natural and induced rotatory power. (A14). 471688

mode locking

- Sub-picosecond optical pulses. (E42, A14). 488307

optical activity

- Polarization modes of a dye laser containing an element with optical activity in a cavity of the annular type. (A14). 471687

optical pumping

- Fluorescence diagnostics in two-step laser excitation of high J atoms. (B13, B12). 476165

polarization

- Polarization modes of a dye laser containing an element with optical activity in a cavity of the annular type. (A14). 471687

pulse integrators

- Integrator with key for the observation of pulsed. (E42, A14). 474154

pulse techniques

- Sub-picosecond optical pulses. (E42, A14). 488307
- Ultra-short light pulse generation and its applications. (A14). [Data] 489370

quantitative chemical analysis

- Single micro-particle and atomic particle detection. (E41). 461847

research programs

- New-laser research and development. (A14). 464243

specifications

- Reliable high average power dye laser. (D13). 461449

stability

- Investigation of dye laser excitation of atomic systems. (A12). 485382

synchronization

- Modified SCR for optically actuated triggering. (E13). 470345

tuning

- Line tuning and line narrowing of dye laser utilizing the dispersion of natural and induced rotatory power. (A14). 471688

variations

- Investigation of dye laser excitation of atomic systems. (A12). 485382

DYES:

See also *AZO DYES; EOSIN; PHTHALOCYANINES; PYROCATECHOL VIOLET; RHODAMINES; ROSE BENGAL; XYLENOL ORANGE*

biological effects

- Inactivation of *Neurospora crassa* conidia by singlet molecular oxygen generated by a photosensitized reaction. (C12; uv radiation). 487196

chemical radiation effects

- Decoloration and degradation of an anthraquinone dye aqueous solution in flow system using an electron accelerator. (B14). [Data] 479178

irradiation

- The dye photooxidation of polymers and biopolymers. (A12). 485508
- waste processing**
Radiation treatment of wastewater. (11). (D23). 491436

DYNAMIC FUNCTION STUDIES:

- Validation of the calculation of the renal impulse response function. An analysis of errors and systematic biases. (C31). 473119

bladder

- Study of urodynamics by radioactive indicators. (C62). [Data] 482345

computer calculations

- Quantitative evaluation and imaging of functions using pattern recognition methods. (C62). [Data] 473473

in vivo

- In vivo measurements. (E41, C62). 482825

labelled compounds

- Short-life radionuclides and regional lung function. (C62). [Data] 473440

lungs

- The basis of quantitative pulmonary computer tomography. (C61). 470026

radiopharmaceuticals

- Krypton-81m: a better radiopharmaceutical for assessment of regional lung function in children. (C62, C31). 494532

scintiscanning

- Image segmentation applied to the delineation of ventricles on a series of cardiac scintigrams. (C31). 469835

- Problems encountered in displaying a series of cardiac scintigrams. (C31). 469829

tracer techniques

- Study of urodynamics by radioactive indicators. (C62). [Data] 482345
- x-ray fluorescence analysis**
Applications of the X-ray fluorescence technique to medical dynamic studies. (C45). 469880

DYNAMIC MASS SPECTROMETERS:

See also TIME-OF-FLIGHT MASS SPECTROMET

DYNAMIC STUDIES (BIOLOGICAL):

See DYNAMIC FUNCTION STUDIES

DYNAMICAL GROUPS:

See also O GROUPS

DYNAMICS:

See MECHANICS

DYNAMICS (BEAM):

See BEAM DYNAMICS

DYNAMITRONS:

- ion beams
- Energy determination of heavy-ion beams. (E16). 484876
- magnetic analyzers
- Beam properties of the 4 MV Dynamitron accelerator at Stuttgart. (E16). 484866

DYNODES:

- photomultipliers
- Improvements to dynodes of photomultipliers. (E41). 463729

DYONS:

- (Hypothetical particles endowed with both electric and magnetic charges.)
- Classical Lagrangian theory of Dirac's monopole: avoiding Dirac's veto. (A11). 467065
- p invariance
- Space-reflection operation and the boson-fermion puzzle in a dyonium model. (A11). 467134
- quantum field theory
- Quantum soliton operators for monopoles and fermionization mechanism of dyons. (A21). 478439
- regge trajectories
- Regge trajectory for the dyon potential. (A21). 478461

DYSPROSIUM:

- absorption spectra
- Systematic comparisons between the 4d spectra of lanthanide atoms and solids. (A12). [Data] 488888
- activation analysis
- Harrisburg 1° x 2° NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- crystal growth
- Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24). 479353
- electron spin resonance
- Effect of dilute Dy substitution on the Gd electron spin resonance in Gdsub(0.5)Ysub(0.5)Ir₂. (A13). 488961
- element abundance
- Rare earths in barites: distribution and effects on aqueous partitioning. (B31). [Data] 487086
- fluorescence
- An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- Laser excited fluorescence and lifetime studies in Dy³⁺:LaF₃ single crystal. (A12). [Data] 477820
- inner-shell ionization
- K-shell ionization of Dy atoms produced in Gd(α, xn) reactions. (A12, A34). 488784
- k shell
- An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- lithium 7 reactions
- L-shell x-ray production cross sections due to ¹H, ⁴He, and ⁷Li ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520
- magneto-thermal effects
- Magnetocaloric effect in dysprosium. (B22). 479366
- muon probes
- On the hyperfine fields at a positive muon in Gd and Dy. (A13). 474837

- photon activation analysis
- The use of photon activation analysis for the determination of Sm, Eu, Gd and Dy in boron carbide. (B11). [Data] 483955

- physical radiation effects
- Defect annealing in the hexagonal close packed heavy rare earth metals Gd, Tb, Dy, Ho, Er, Tm and Lu after electron irradiation at low temperatures. (B25). [Data] 469420

- quantitative chemical analysis
- Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676

- solvent extraction
- Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704

- specific heat
- Magnetic contribution to the specific heats of gadolinium, dysprosium and erbium. (B22). 469271

DYSPROSIUM ADDITIONS:

- gadolinium alloys
- ESR bottleneck of Er and Dy-doped GdAl₂. (A13). 477861

DYSPROSIUM ALLOYS:

See also DYSPROSIUM BASE ALLOYS

- Comments on 'Magnetic anisotropy of RE₂(Fe,Co)₁₇ detected by the singular point detection technique. (B22). 460736

- absorption spectra
- Chemical shifts of the L₃-absorption edge of Pt in the rare earth-platinum intermetallic compounds. (A12). 481037

- antiferromagnetism
- Magnetic excitations in rare-earth antiferromagnets with bilinear and biquadratic pair couplings: Application to DySb. (B22). 481840

chemical shift

- Chemical shifts of the L₃-absorption edge of Pt in the rare earth-platinum intermetallic compounds. (A12). 481037

coercive force

- Temperature dependence of coercivity in some rare-earth-Fe₂ intermetallic compounds. (B22). 476239

crystal field

- Indirect evidence for exchange modification of the conduction bands in RA₂ compounds. (B22). 490571

domain structure

- Domain boundary structure in orthoferrites. (A13). 492617

electron spin resonance

- Effect of dilute Dy substitution on the Gd electron spin resonance in Gdsub(0.5)Ysub(0.5)Ir₂. (A13). 488961

exchange interactions

- Indirect evidence for exchange modification of the conduction bands in RA₂ compounds. (B22). 490571

magnetic properties

- Evidence for easy axis rotation in Dy/sub 1-x/Gd/sub x/Al₂ alloys from nuclear hyperfine field measurements. (B22). 479370

- Magnetic interactions in R₆Mn₂₃ rare earth intermetallics. (B22). 479383

- Magnetic properties of R₃Pt₄ intermetallic compounds. (B22). 479392

- Ternary and quaternary rare earth cobalt magnetic materials with low reversible temperature coefficients. (B22). 479399

- Ultrasonic studies below T/sub c/ in amorphous rare earth-iron alloys. (B22). 479401

magnetostriction

- Permeability, magnetomechanical coupling and magnetostriction in grain-oriented rare earth-iron alloys. (B22, B21). 460747

permeability

- Permeability, magnetomechanical coupling and magnetostriction in grain-oriented rare earth-iron alloys. (B22, B21). 460747

DYSPROSIUM BASE ALLOYS:

magnetization

- Magnetic properties of dysprosium-yttrium alloys. (B22). 469255

DYSPROSIUM BROMIDES:

lattice vibrations

- Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). [Data] 478899

DYSPROSIUM CARBIDES:

antiferromagnetism

- Neutron diffraction studies of Pr₂C₃, Nd₂C₃, and Dy₂C₃ at 300 to 1.6°K. (B23). 469350

crystal structure

- Neutron diffraction studies of Pr₂C₃, Nd₂C₃, and Dy₂C₃ at 300 to 1.6°K. (B23). 469350

magnetic properties

- Magnetic properties of the system GdC₂-DyC₂. (B23). 486970

DYSPROSIUM CHLORIDES:

lattice vibrations

- Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). [Data] 478899

polarizability

- Refractive indices and polarizabilities of several molten rare earth chlorides. (B12). [Data] 476028

refractive index

- Refractive indices and polarizabilities of several molten rare earth chlorides. (B12). [Data] 476028

DYSPROSIUM COMPLEXES:

chemical preparation

- Uranyl and lanthanide complexes of the 1,2-dipyridylethylene isomers. (B12, B13). [Data] 481690

chemical reaction kinetics

- Formation constants of chelates of 7-bromo-8-hydroxy-quinoline-5-sulphonic acid with yttrium and some lanthanides. (B12). 462711

formation free energy

- Potentiometric studies on the ternary systems: rare earth metal ions - cyclohexanediamine tetra-acetic acid - dicarboxylic acids. (B12). 460484

precipitation

- The precipitation of lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468838

- The precipitation of the lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468837

solvent extraction

- Extraction of lanthanoids from hydrochloric and nitric acid solutions by Di(2-ethylhexyl)phosphoric acid. (B12). [Data] 475963

- Investigation of reaction of yttrium subgroup rare earth ions with some triphenylmethane dyes. (B12, B11). 493559

stability

- Studies on lanthanides. Stability constants and thermodynamic functions for the formation of some lanthanides(III) CPTA complexes. (B12). 460512

- Thermodynamic functions and stability constants of rare earths with monothiodibenzoylmethane. (B12). [Data] 481695

valine

- Complexation reaction of metal ions with peptide systems. II. (B12). 484055

DYSPROSIUM COMPOUNDS:

See also DYSPROSIUM BROMIDES; DYSPROSIUM CARBIDES; DYSPROSIUM CHLORIDES; DYSPROSIUM HYDRIDES; DYSPROSIUM NITRATES; DYSPROSIUM OXIDES; DYSPROSIUM SULFATES; DYSPROSIUM SULFIDES

chemical preparation

- Hydrothermal synthesis and crystallographic characteristics of crystals LaSbO₃, PrSbO₃, DySbO₃. (B12). 468785

chemical reactions

- Investigation of reaction of yttrium subgroup rare earth ions with some triphenylmethane dyes. (B12, B11). 493559

- The systems of $\text{Dy}(\text{BH}_4)_3$ -tetrahydrofuran and $\text{Dy}(\text{BH}_4)_3$ - LiBH_4 -tetrahydrofuran. (B12). 476027
- crystal-phase transformations**
- Novel type of structural Jahn-Teller phase transition in DyVO_4 induced by electric field. (A13). 489073
- elasticity**
- Effect of an electric field on elastic properties of DyVO_4 . (A13). 492704
- magnetic properties**
- Investigation of nearly perfect magnetic single crystals by means of neutron diffraction. (A13). 477940
- permittivity**
- Novel type of structural Jahn-Teller phase transition in DyVO_4 induced by electric field. (A13). 489073
- radiationless decay**
- Non-radiative energy transfer from $\text{Dy}^{3+} \rightarrow \text{Ho}^{3+}$ in calibo glass. (A12). [Data] 481049
- solubility**
- The systems of $\text{Dy}(\text{BH}_4)_3$ -tetrahydrofuran and $\text{Dy}(\text{BH}_4)_3$ - LiBH_4 -tetrahydrofuran. (B12). 476027
- The systems of terbium sulfate - carbamide - water and dysprosium acetate - carbamide - water at 30 deg C. (B12). 490389
- spin orientation**
- Frequencies and relaxation of Fe^{57} NMR signal in the region of the first-kind spin-reorientation phase transition of the Morin type in rare-earth orthoferrites. (A13). 474705
- DYSPROSIUM HYDRIDES:**
- antiferromagnetic materials**
- Crystalline electric field transition in DyD_2 . (A13, B24). 489052
- crystal field**
- Crystalline electric field transition in DyD_2 . (A13, B24). 489052
- crystal growth**
- The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). [Data] 467414
- magnetic properties**
- Magnetic properties of DyFe_2H_2 from ^{59}Fe , ^{161}Dy Moessbauer effect and magnetization measurements. (B23). 479512
- microstructure**
- The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). [Data] 467414
- DYSPROSIUM IONS:**
- exchange interactions**
- Indirect evidence for exchange modification of the conduction bands in RAl_2 compounds. (B22). 490571
- fluorescence**
- Radiative decay rates in $\text{LaF}_3:\text{Dy}^{3+}$. (A13). 483258
- ion implantation**
- TEM study of amorphous alloys produced by ion implantation. (B25, A13). 481894
- DYSPROSIUM ISOTOPES:**
- See also **DYSPROSIUM 147**; **DYSPROSIUM 148**; **DYSPROSIUM 149**; **DYSPROSIUM 151**; **DYSPROSIUM 152**; **DYSPROSIUM 153**; **DYSPROSIUM 154**; **DYSPROSIUM 155**; **DYSPROSIUM 156**; **DYSPROSIUM 157**; **DYSPROSIUM 158**; **DYSPROSIUM 159**; **DYSPROSIUM 160**; **DYSPROSIUM 161**; **DYSPROSIUM 162**; **DYSPROSIUM 164**; **DYSPROSIUM 165**
- beta decay**
- Investigation of nuclei near $N = 82$ and $Z = 64$ VIA radioactive decay of high-spin isomers. (A34). [Data] 475853
- configuration mixing**
- Isotopic shifts and configuration mixing in the dysprosium II spectrum. (A12). 474551
- hyperfine structure**
- High resolution atomic-beam-laser spectroscopy of europium I and dysprosium I. (A12). 483235
- isotope production**
- Production of new neutron-rich nuclei by using high flux fast neutron from an AVF cyclotron. (A34). [Data] 490192
- neutron-rich isotopes**
- Production of new neutron-rich nuclei by using high flux fast neutron from an AVF cyclotron. (A34). [Data] 490192
- nuclear deformation**
- Relation of the deformation energy of nuclear ground states with experimental characteristics of the rotational bands. (A33; $152 < A < 192$). 490042
- spectral shift**
- Isotopic shifts and configuration mixing in the dysprosium II spectrum. (A12). 474551
- DYSPROSIUM NITRATES:**
- aqueous solutions**
- The $\text{Dy}(\text{NO}_3)_3 \cdot \text{HNO}_3 \cdot \text{H}_2\text{O}$ system at 25 deg C. (B12). 493550
- DYSPROSIUM OXIDES:**
- antiferromagnetism**
- Studies of antiferromagnetism in $\text{Dy}_2\text{Ge}_2\text{O}_7$ single crystals. (A13). 464230
- crystal growth**
- Flux growth of double oxides of niobium and rare-earth elements (Ln_3NbO_7). (B12). [Data] 481697
- crystal structure**
- Preparation and structure of some Ln_2MoO_7 oxides. (B12). [Data] 462719
- interatomic distances**
- Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
- magnetic properties**
- Influence of La^{3+} and Lu^{3+} ions on phase transitions in dysprosium orthoferrite. (B12). 493580
- magneto-optical effects**
- Magneto-optical rotation in a transverse field in $\text{Dy}_3\text{Al}_5\text{O}_{12}$ (DAG). (B23). 494062
- magnetostriction**
- Roles of the order parameters M and $M_{\text{sub } s/}$ in the magnetostriction of $\text{Dy}_3\text{Al}_5\text{O}_{12}$ (DAG). (B23). 479481
- neel temperature**
- Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
- neutron detection**
- Neutron detection using Dy_2O_3 activation detectors. (E41). [Data] 463716
- DYSPROSIUM SULFATES:**
- chemical preparation**
- Sulfato-molybdates in the systems of $\text{Ln}_2(\text{MoO}_4)_3 \cdot \text{Ln}_2(\text{SO}_4)_3$, where $\text{Ln} = \text{Tb, Dy, Ho}$ and Er . (B12). 476113
- DYSPROSIUM SULFIDES:**
- specific heat**
- Low temperature heat capacities of rare earth sesquisulfides. (B24). 479525
- spin orientation**
- Neutron scattering studies of the coexistence of long-range magnetic order and superconductivity in $\text{Dy}/\text{sub } 1.2/\text{Mo}_6\text{S}_8$ and $\text{Tb}/\text{sub } 1.2/\text{Mo}_6\text{S}_8$. (B24, A17). 479526
- superconductivity**
- Neutron scattering studies of the coexistence of long-range magnetic order and superconductivity in $\text{Dy}/\text{sub } 1.2/\text{Mo}_6\text{S}_8$ and $\text{Tb}/\text{sub } 1.2/\text{Mo}_6\text{S}_8$. (B24, A17). 479526
- Neutron scattering observations on the magnetic phases of rare-earth ternary superconductors. (B22, A17). 465629
- DYSPROSIUM 147:**
- electric charges**
- Study on ^{147}Dy and ^{199}Po charge states being the products of full fusion nuclear reactions. (A34). 478770
- Study on charge states of ^{147}Dy and ^{199}Po produced in nuclear reactions of full fusion. (A34). 486456
- spatial distribution**
- Study on ^{147}Dy and ^{199}Po charge states being the products of full fusion nuclear reactions. (A34). 478770
- DYSPROSIUM 148:**
- energy levels**
- Identification of ^{148}Ho and ^{149}Ho . (A34). [Data] 481603
- DYSPROSIUM 149:**
- energy levels**
- Identification of ^{148}Ho and ^{149}Ho . (A34). [Data] 481603
- energy-level density**
- Collective and noncollective excitations in odd-even $N = 83$ nuclei. (A33). [Data] 465067
- high spin states**
- Collective and noncollective excitations in odd-even $N = 83$ nuclei. (A33). [Data] 465067
- Search for high-spin isomeric states in the rare-earth region. (A34). 490174
- DYSPROSIUM 151:**
- high spin states**
- High spin isomers in ^{151}Dy . (A34). 465205
- Linear polarization of the gamma-ray continuum feeding high-spin states in $^{156-158}\text{Er}$ and $^{151-152}\text{Dy}$. (A34). 465230
- Search for high-spin isomeric states in the rare-earth region. (A34). 490174
- yrast states**
- High spin isomers in ^{151}Dy . (A34). [Data] 472287
- DYSPROSIUM 152:**
- high spin states**
- In-beam γ -ray studies of complex band structures and of isomeric states in $^{152} \text{ } ^{153}\text{Dy}$ nuclei. (A34). 483890
- Linear polarization of the gamma-ray continuum feeding high-spin states in $^{156-158}\text{Er}$ and $^{151-152}\text{Dy}$. (A34). 465230
- Yrast isomers and possible oblate shape in ^{152}Dy . (A34). 468525
- isomeric nuclei**
- In-beam γ -ray studies of complex band structures and of isomeric states in $^{152} \text{ } ^{153}\text{Dy}$ nuclei. (A34). 483890
- Particle-hole structure of nuclear isomers at high angular momenta. (A33). 468285
- lifetime**
- Recoil-distance lifetime measurement of low-lying states in ^{152}Dy and ^{153}Dy . (A34). 490148
- yrast states**
- Yrast isomers and possible oblate shape in ^{152}Dy . (A34). 468525
- DYSPROSIUM 153:**
- high spin states**
- In-beam γ -ray studies of complex band structures and of isomeric states in $^{152} \text{ } ^{153}\text{Dy}$ nuclei. (A34). 483890
- isomeric nuclei**
- In-beam γ -ray studies of complex band structures and of isomeric states in $^{152} \text{ } ^{153}\text{Dy}$ nuclei. (A34). 483890
- lifetime**
- Recoil-distance lifetime measurement of low-lying states in ^{152}Dy and ^{153}Dy . (A34). 490148
- DYSPROSIUM 154:**
- energy levels**
- Nuclear data sheets for $A = 154$. (A33). 478631
- energy-level transitions**
- Nuclear data sheets for $A = 154$. (A33). 478631
- DYSPROSIUM 155:**
- half-life**
- The isomeric $9/2^+$ and the lowest $7/2^-$ state in the weakly deformed $N = 89$ nuclei. (A34). 475821
- high spin states**
- Investigation of the $^{155}\text{Ho} \rightarrow ^{155}\text{Dy}$ decay. (A34). [Data] 486310
- isomeric transitions**
- Investigation of the $^{155}\text{Ho} \rightarrow ^{155}\text{Dy}$ decay. (A34). [Data] 486310

DYSPROSIUM 156:

high spin states
The structure of the stable Dy-isotopes at high angular momenta. (A34). 465125

nuclear structure
Band mixing in the nucleus ^{156}Dy . (A33). 468428

DYSPROSIUM 157:

nuclear structure
Coriolis interaction. (A33). 478652

DYSPROSIUM 158:

high spin states
Determination of the electron conversion coefficients for transitions between the high-spin states of ^{158}Dy . (A34). 465086

Spectroscopy of heavy nuclei: yrast states, side bands and backbending. (A34; Transitions). [Data] 486461

The structure of the stable Dy-isotopes at high angular momenta. (A34). 465125

yrast states
Lifetimes of Yrast-states in ^{158}Dy . (A34). 465105

Spectroscopy of heavy nuclei: yrast states, side bands and backbending. (A34; Transitions). [Data] 486461

DYSPROSIUM 159:

nuclear structure
Coriolis interaction. (A33). 478652

rotational states
Lifetimes of ^{159}Dy and ^{161}Dy low lying excited states. (A34). [Data] 493334

DYSPROSIUM 160:

high spin states
The structure of the stable Dy-isotopes at high angular momenta. (A34). 465125

DYSPROSIUM 161:

nuclear structure
Coriolis interaction. (A33). 478652

rotational states
E2-transitions of $\Delta K=1$ in odd deformed nuclei. (A33). 465038

Lifetimes of ^{159}Dy and ^{161}Dy low lying excited states. (A34). [Data] 493334

DYSPROSIUM 162:

energy levels
Nuclear spectroscopic studies. (A34; Summaries of research activities at Univ. of Tennessee). [Data] 486341

high spin states
The structure of the stable Dy-isotopes at high angular momenta. (A34). 465125

DYSPROSIUM 162 TARGET:

alpha reactions
Preequilibrium and equilibrium deexcitation processes for Dy(α , xn γ)Er reactions at $E_{\text{sub}}(\alpha)=90$ MeV and $^{165}\text{Ho}(p, \text{xnyp } \gamma)$ reactions at $E_{\text{sub}}(p)=60$ MeV. (A34). 465124

DYSPROSIUM 164:

e2-transitions
Low lying spectra and electromagnetic transitions for ^{164}Dy , ^{166}Er , and ^{168}Yb nuclei. (A33). [Data] 465016

high spin states
The structure of the stable Dy-isotopes at high angular momenta. (A34). 465125

rotational states
Low lying spectra and electromagnetic transitions for ^{164}Dy , ^{166}Er , and ^{168}Yb nuclei. (A33). [Data] 465016

DYSPROSIUM 164 TARGET:

alpha reactions
Preequilibrium and equilibrium deexcitation processes for Dy(α , xn γ)Er reactions at $E_{\text{sub}}(\alpha)=90$ MeV and $^{165}\text{Ho}(p, \text{xnyp } \gamma)$ reactions at $E_{\text{sub}}(p)=60$ MeV. (A34). 465124

argon 40 reactions
Study on ^{142}Dy and ^{199}Po charge states being the products of full fusion nuclear reactions. (A34). 478770

Study on charge states of ^{147}Dy and ^{199}Po produced in nuclear reactions of full fusion. (A34). 486456

DYSPROSIUM 165:

internal conversion
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236

E CENTERS:

electron spin resonance
Calculation of the g-tensor and ^{29}Si hyperfine tensors of the E_1' centre in silicon dioxide. (A13). 462193

E CODES:

atoms
Analytic approximations of radial orbitals for multiconfigurational Hartree-Fock computations. III. (A12, F51). 483192

Generator of atomic excited terms from angular considerations. II. (A12, F51). 483191

cosmic showers
A set of subroutines for simulation of electron-photon cascades. (A21, F51). 483676

nuclear data collections
System specifications for the NDS EXFOR System. (F51). 492338

plasma diagnostics
Description of EMX computer code. System for measuring soft X rays. (A14; in TFR 600). 489254

E LAYER:

See E REGION

E REGION:

chemical reaction kinetics
Problems in the chemistry of metallic species in the D and E regions. (B33). [Data] 465847

daily variations
Vertical penetration of planetary waves into the lower ionosphere. (B33, A15). 469551

electric currents
A two-layer model for the geomagnetic crochets. (B33). [Data] 463022

electron density
Electron density and temperature profiles in the antarctic auroral ionosphere observed by sounding rockets. (B33). [Data] 476493

electron temperature
Ionospheric D-region profile data base. A collection of computer-accessible experimental profiles of the D and lower E regions. (B33). [Data] 490871

Rocket borne studies of the irregularities in the equatorial E-region generated through cross-field instability mechanism. (B33). 460936

emission spectra
Electron density and temperature profiles in the antarctic auroral ionosphere observed by sounding rockets. (B33). [Data] 476493

Optical evidence for mid-latitude charged particle precipitation. (B33, A15). 463011

mathematical models
Calculated ionospheric variations due to changes in the solar EUV flux measured by the AEROS spacecraft. (B33, A15). [Data] 463021

plasma instability
Ionospheric instabilities and fine structure. (B33). 494233

plasma waves
High frequency radar observations of horizontal plasma waves in the equatorial ionosphere. (B33). 463012

EARLY RADIATION EFFECTS:

adrenal glands
Adrenal secretory granule ATP content and ATP-ase activity in radiation damage. (C14). 463144

blood coagulation
Changes in blood plasma and lymph antithrombin activity in whole-body irradiated dogs. II. (C14). 463136

copper
Biochemical effects of combined exposure to external radiation and internal strontium-89. (C21, C14). 466204

enzymes
Biochemical effects of combined exposure to external radiation and internal strontium-89. (C21, C14). 466204

radioactivation
Activation phase as the first response of cells and tissues to irradiation. (C11). 479764

radium 224
Animal experiments with radium-224. (C21). 466198

therapy
Administration of pyrimetin in radiological practice. (C15). 463196

EARS:

See AUDITORY ORGANS

EARTH ATMOSPHERE:

See also D REGION; E REGION; EARTH MAGNETOSPHERE; F REGION; F2 LAYER; IONOSPHERE; MESOSPHERE; SPREAD F; STRATOSPHERE; THERMOSPHERE; TROPOSPHERE

European sounding-rocket, balloon and related research, with emphasis on experiments at high latitudes. Proceedings. (A15, B33). 485876

air pollution
Method for using acoustic sounder categories to determine atmospheric stability. (C52, B33). [Data] 469962

albedo
First 18 months of planetary radiation budget measurements from the Nimbus 6 ERB experiment. (B33). 487148

On the effects of a sudden change in the albedo of the earth. (B33). 469552

boundary layers
Response of atmospheric surface layer turbulence to a partial solar eclipse. (B33). 487137

carbon dioxide
Enhanced CO_2 greenhouse to compensate for reduced solar luminosity on early Earth. (B33). 481966

Recent trends in the $^{13}\text{C}/^{12}\text{C}$ ratio of atmospheric carbon dioxide. (B33). [Data] 460923

carbon 13
Recent trends in the $^{13}\text{C}/^{12}\text{C}$ ratio of atmospheric carbon dioxide. (B33). [Data] 460923

carbon 14
Natural atmospheric ^{14}C variation and the Suess effect. (B33). 494247

chemical reactions
Three-dimensional, time-dependent modeling of neutral gas diffusion in a nonuniform, chemically reactive atmosphere. (B33). 490839

coordinated research programs
The Spanish national programme of balloons and sounding rockets. (B33). 484394

cosmic ray flux
Secular variations in the production of cosmogenic isotopes in the Earth's atmosphere. (B33). [Data] 465850

diffusion
Three-dimensional, time-dependent modeling of neutral gas diffusion in a nonuniform, chemically reactive atmosphere. (B33). 490839

eclipse
Response of atmospheric surface layer turbulence to a partial solar eclipse. (B33). 487137

flow models
Direct method of adjusting windfields over complex terrain. (B33). 479694

gamma radiation
Atmospheric neutron and gamma ray fluxes and energy spectra. (B33). 490868

| | |
|---|--------|
| neutron transport | |
| Monte Carlo calculations of radiation transport in the upper atmosphere. (A31). | 460254 |
| neutrons | |
| Atmospheric neutron and gamma ray fluxes and energy spectra. (B33). | 490868 |
| opacity | |
| Temperature dependence of collision-induced absorption in gaseous N ₂ . (A12). | 474588 |
| ozone | |
| The August 1972 solar proton event and the atmospheric ozone layer. (B33). [Data] | 481953 |
| photolysis | |
| Sensitivity of the photodissociation of NO ₂ , NO ₃ , HNO ₃ and H ₂ O ₂ to the solar radiation diffused by the ground and by atmospheric particles. (B33, A15). [Data] | 469566 |
| protons | |
| Origin of 30 approximately 100 keV protons observed in the upstream region of the earth's bow shock. (B33). | 472896 |
| radioactivity | |
| An atmospheric tritium and carbon-14 monitoring system. (B33, C52). | 490892 |
| Determination of krypton 85 atmospheric activity in the northern hemisphere from 1972 to 1977. (B33). | 472884 |
| Environmental monitoring report for Pantex Plant covering 1978. (B33, C22, B32, C52, C21). [Data] | 487136 |
| Method for using acoustic sounder categories to determine atmospheric stability. (C52, B33). [Data] | 469962 |
| Ozone and radioisotopes used as tracers of atmospheric processes. (B33). | 479697 |
| Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). | 470006 |
| radionuclide migration | |
| Characterizing dispersion on a climatological basis. (B33, C52; Effects of climatological factors on atmospheric transport of radioactive effluents from nuclear power plants). | 463023 |
| Critique of methods for estimating plume depletion and deposition of airborne radionuclides. (B33, C52). | 469565 |
| Model evaluation for travel distances 30 to 140 km. (B33, C52; Verification of transport models using ⁸⁵ Kr data at Savannah River Plant). | 460934 |
| Studies and research concerning BNFP: safety and environmental impact of interim AFR storage in the BNFP - FRSS. Final report. (E52, C52, C21; Human population dose commitments from away-from-reactor waste storage at the Fuel Storage Station at BNFP). | 477473 |
| research programs | |
| The Norwegian sounding rocket programme 1978-81. (B33). | 484414 |
| The scientific sounding rocket and balloon programme of Switzerland. (B33). | 484412 |
| shock waves | |
| Origin of 30 approximately 100 keV protons observed in the upstream region of the earth's bow shock. (B33). | 472896 |
| solar activity | |
| Solar activity and changes in atmospheric circulation. (B33, A15). | 494250 |
| steady flow | |
| Quasisteady primitive equations with associated upper boundary conditions. (A13). | 464156 |
| thermal pollution | |
| Storms over the METER - ORNL Precipitation Network: the first six months. (C52; Georgia). | 487535 |
| water | |
| Enhanced CO ₂ greenhouse to compensate for reduced solar luminosity on early Earth. (B33). | 481966 |
| water vapor | |
| Storms over the METER - ORNL Precipitation Network: the first six months. (C52; Georgia). | 487535 |
| EARTH CRUST: | |
| age estimation | |
| Crustal evolution clues. (B31). | 481923 |
| chemical composition | |
| Petrogenetic mixing models and Nd-Sr isotopic patterns. (B31). [Data] | 462961 |
| isotope ratio | |
| ¹⁴³ Nd/ ¹⁴⁴ Nd and ⁸⁷ Sr/ ⁸⁶ Sr ratios from the Azores and their significance in LIL-element enriched mantle. (B31). [Data] | 487092 |
| Crustal evolution clues. (B31). | 481923 |
| Implications of correlated Nd and Sr isotopic variations for the chemical evolution of the crust and mantle. (B31). | 484340 |
| Petrogenetic mixing models and Nd-Sr isotopic patterns. (B31). [Data] | 462961 |
| neutron transport | |
| Radiation transport in earth for neutron and gamma ray point sources above an air-ground interface. (A32, A31, E14). | 472126 |
| photon transport | |
| Radiation transport in earth for neutron and gamma ray point sources above an air-ground interface. (A32, A31, E14). | 472126 |
| uranium | |
| Uranium abundance of the oceanic crust. (B31). [Data] | 469487 |
| EARTH MAGNETOSPHERE: | |
| Magnetosphere models. (B33). | 490864 |
| alfven waves | |
| Alfven/ion cyclotron waves and the ion cyclotron instability in the Earth's magnetosphere. (B33). | 469564 |
| Nonlinear theory of low frequency geomagnetic pulsations. (A14, B33). | 481198 |
| aurora | |
| On the theory of the generation of auroral radiation. (B33). | 484398 |
| beam-plasma systems | |
| Space experiments with particle accelerators: SEPAC. (E16). | 477043 |
| boundary conditions | |
| On some problems concerning the calculation of the form of the magnetopause and the electric field on the magnetopause in the framework of the continuum medium model. (B33). | 490886 |
| charged-particle transport | |
| Trajectory traces of charged particles in the magnetosphere. (B33). [Data] | 465830 |
| collisionless plasma | |
| Fluid description of a collisionless plasma and electric current systems in cosmic plasmas. (A14, B33). | 489195 |
| convection | |
| Driving force for magnetospheric convection. (B33). | 465843 |
| coupling | |
| Ionospheric electric fields and currents of magnetospheric origin. (B33; Modeling calculation, global distribution). | 479714 |
| currents | |
| Dynamical processes of turbulence development in longitudinal currents. (B33). | 487144 |
| Electric current model of magnetosphere. (A15). | 489393 |
| disturbances | |
| Large-scale magnetic field perturbations and particle measurements at 1400 km on the dayside. (B33). | 490870 |
| Magnetospheric effects of power line radiation. (B33). | 479715 |
| Prediction of high-energy (> 0.3 MeV) substorm-related magnetospheric particles. (B33; Probability). | 476477 |
| electric fields | |
| Convection electric field model for the magnetosphere based on explorer 45 observations. (B33). [Data] | 465831 |
| Early results from ISEE-A electric field measurements. (B33). | 487146 |
| Early results from ISEE-1 electric field measurements. (B33). | 460918 |
| Electric field measurements in the solar wind, bow shock, magnetosheath, magnetopause and magnetosphere. (B33). | 460930 |
| Electric fields in the outer magnetosphere - Recent progress and outstanding problems. (A15). | 478241 |
| Magnetospheric electric fields and currents and their influence on large scale thermospheric circulation and composition. (B33). | 494249 |
| On some problems concerning the calculation of the form of the magnetopause and the electric field on the magnetopause in the framework of the continuum medium model. (B33). | 490886 |
| Strong laboratory double layers in the presence of a magnetic field. (B33, A14). | 476479 |
| electrojets | |
| Study of magnetosphere dynamics during auroral electrojet events by observations of energetic electron intensity changes at synchronous orbit. (B33). | 490848 |
| electron density | |
| Early results from the ISEE electron density experiment. (B33). | 484403 |
| Prediction of high-energy (> 0.3 MeV) substorm-related magnetospheric particles. (B33; Probability). | 476477 |
| Small scale structure of magnetospheric electron density through on-line tracking of plasma resonances. (B33). | 460919 |
| electron detection | |
| Stable 'pancake' distributions of low energy electrons in the plasma trough. (B33). | 490898 |
| electron temperature | |
| High temporal resolution observations of electron heating at the bow shock. (B33). | 484390 |
| electrons | |
| Variations of electron fluxes in the outer radiation belt near the boundary of a trapping region during substorms. (B33). | 494235 |
| energy transfer | |
| Energetics of terrestrial and Jovian magnetospheres. (B33). | 484418 |
| geos satellites | |
| Dynamics of magnetospheric ion composition as observed by the GEOS mass spectrometer. (B33). | 484399 |
| Small scale structure of magnetospheric electron density through on-line tracking of plasma resonances. (B33). | 460919 |
| Some early results of the keV plasma experiment on GEOS-1. (B33). | 460904 |
| Substorm-associated injections of energetic ions observed by GEOS-1 and ATS-6 in and near synchronous altitude. (B33). | 460944 |
| hot plasma | |
| Some early results of the keV plasma experiment on GEOS-1. (B33). | 460904 |
| hydromagnetic waves | |
| Orientation of hydromagnetic waves in the magnetosphere. (B33). | 465839 |
| layers | |
| Strong laboratory double layers in the presence of a magnetic field. (B33, A14). | 476479 |
| magnetic bays | |
| High-resolution energetic particle measurements at 6.6R/sub E/ 3. Low-energy electron anisotropies and short-term substorm predictions. (B33). | 465822 |
| Mechanism of a magnetosphere substorm. (B33). | 487142 |
| magnetic field configurations | |
| Closed model of the earth's magnetosphere. (B33). | 465852 |
| Dayside merging and cusp geometry. (B33). | 490844 |
| Polar cap electric field structures with a northward interplanetary magnetic field. (B33). | 465825 |
| Role of O-type neutral lines in magnetic merging during substorms and solar flares. (B33). | 472894 |
| Signatures of the various regions of the outer magnetosphere in the | |

| | |
|--|--------|
| pitch angle distributions of energetic particles. (B33). | 465862 |
| magnetic storms | |
| Substorm-associated injections of energetic ions observed by GEOS-1 and ATS-6 in and near synchronous altitude. (B33). | 460944 |
| masers | |
| Magnetosphere as an alfvén maser. (B33). | 487161 |
| plasma acceleration | |
| Ion acceleration at the earth's bow shock: a review of observations in the upstream region. (A15). | 475277 |
| plasma density | |
| Multi-experiment determination of plasma density and temperature. (B33). | 460909 |
| Plasma density measurements from the GEOS-1 relaxation sounder. (B33). | 460912 |
| plasma diagnostics | |
| Method of locating the Pc 1 source and hot plasma parameters in the generation region. (B33, A14). | 469554 |
| Stable 'pancake' distributions of low energy electrons in the plasma trough. (B33). | 490898 |
| plasma drift | |
| The effect of plasma drift on the electromagnetic cyclotron instability. (A14, B33). | 475072 |
| plasma sheet | |
| Formation of the plasma sheet resulting from plasma mantle dynamics. (B33). | 465853 |
| plasma waves | |
| Electrostatic emissions between electron gyroharmonics in the outer magnetosphere. (B33). | 465842 |
| Electrostatic noise at the plasma frequency beyond the earth's bow shock. (B33). | 490850 |
| Initial results from the ISEE-1 and -2 plasma wave investigation. (B33). | 484402 |
| On the excitation of low-hybrid oscillations by fast ion beams. (B33). | 490863 |
| plasmasphere | |
| Dynamics of magnetospheric ion composition as observed by the GEOS mass spectrometer. (B33). | 484399 |
| polar cusp | |
| DMSP-F2 observations of cusplike electron precipitation regions during the September 19-21, 1977 event. (B33). | 460905 |
| Observations of low-energy electrons from AEC in the south polar cusp during the geomagnetic storm of September 21, 1977. (B33). | 460935 |
| proton density | |
| Prediction of high-energy (> 0.3 MeV) substorm-related magnetospheric particles. (B33; Probability). | 476477 |
| pulsations | |
| High-resolution energetic particle measurements at 6.6 R/sub E/ 1. Electron micropulsations. (B33). [Data] | 465841 |
| IMF orientation, solar wind velocity, and Pc 3-4 signals: A joint distribution. (B33, A15). [Data] | 465835 |
| Initial kick of geomagnetic pulsation pi 2, associating with magnetospheric substorm. (B33). | 481960 |
| Nonlinear theory of low frequency geomagnetic pulsations. (A14, B33). | 481198 |
| research programs | |
| The German scientific balloon and sounding rocket projects. (B33). | 487140 |
| Ongoing data reduction, theoretical studies. Final report. (B33, A15; Space Sciences Staff, TRW Defense and Space Systems Group, Redondo Beach, Calif.). | 460942 |
| Some recent results from European sounding rocket and satellite observations of the hot magnetospheric plasma. (A15). | 489526 |
| satellites | |
| Three-dimensional plasma measurements within the Earth's magnetosphere. (B33). | 460913 |
| shock waves | |
| High temporal resolution observations of electron heating at the bow shock. (B33). | 484390 |
| Initial ISEE magnetometer results: shock observation. (B33). | 484424 |
| Initial observations of low energy charged particles near the earth's bow shock on ISEE-1. (B33). | 484406 |
| solar wind | |
| An interpretation of Akasofu's substorm parameter. (B33, A15). | 484395 |
| stresses | |
| Evolution of substorm and quiet-time electron anisotropies (30 less than or equal to E/sub e/ less than or equal to 300 keV). (B33). | 476484 |
| trapped electrons | |
| High-resolution energetic particle measurements at 6.6 R/sub E/ 1. Electron micropulsations. (B33). [Data] | 465841 |
| High-resolution energetic particle measurements at 6.6 R/sub E/ 3. Low-energy electron anisotropies and short-term substorm predictions. (B33). | 465822 |
| trapped protons | |
| High-resolution energetic particle measurements at 6.6 R/sub g/ 2. High-energy proton drift echoes. (B33). [Data] | 465823 |
| vortices | |
| Vortices in magnetospheric plasma flow. (B33). | 469557 |
| wave propagation | |
| Scattering of terrestrial kilometric radiation at very high altitudes. (B33, A15). | 472863 |
| whistlers | |
| Whistler wave induced evolution of warm magnetosphere due to cold plasma injection. (B33, A14). | 463019 |
| x radiation | |
| Low latitude atmosphere x-rays observed by HEAO-1. (B33). | 465845 |

EARTH PLANET:

| | |
|--|--------|
| age estimation | |
| ¹⁰ Be in marine sediments, Earth's environment and cosmic rays. (B22, B33, A15). [Data] | 462876 |
| angular momentum | |
| Gravitational magnetism. (A15). | 471916 |
| climates | |
| On the effects of a sudden change in the albedo of the earth. (B33). | 469552 |
| energy balance | |
| Energy basis of disasters and the cycles of order and disorder. (C50). | 487388 |
| lava | |
| On the importance of advection in determining the local isotopic composition of the mantle. (B31). | 484359 |
| long wave radiation | |
| Direct measurements of the polarization of terrestrial kilometric radiation from Voyagers 1 and 2. (A15, B33). | 478270 |
| magnetic moments | |
| Gravitational magnetism. (A15). | 471916 |
| magnetopause | |
| Dual spacecraft observations of energetic particles in the vicinity of the magnetopause, bow shock, and the interplanetary medium. (B33). | 460931 |
| Early results from ISEE-1 electric field measurements. (B33). | 460918 |
| Initial ISEE magnetometer results: magnetopause observations. (B33). | 460940 |
| ISEE plasma observations near the subsolar magnetopause. (B33). | 460932 |
| Three-dimensional energetic ion observation and the tangential magnetopause electric field. (B33). | 484430 |
| radiowave radiation | |
| Scattering of terrestrial kilometric radiation at very high altitudes. (B33, A15). | 472863 |
| rotation | |
| Effect of Earth's rotation on the quantum mechanical phase of the neutron. (A22, A11). | 486156 |
| Some studies relating to solar-terrestrial physics and the middle atmosphere. (B33). | 490891 |
| solar system evolution | |
| ¹⁴³ Nd/ ¹⁴⁴ Nd and ⁸⁷ Sr/ ⁸⁶ Sr ratios from the Azores and their significance in LIL-element enriched mantle. (B31). [Data] | 487092 |
| EARTHQUAKES: | |
| Method for seismic acceleration assessment with an application to the Western US. (C52). | 487419 |
| computer calculations | |
| Cyclic characteristics of earthquake time histories. (C52, F51). | 461219 |
| damping | |
| Design of steel energy absorbing restrainers and their incorporation into nuclear power plants for enhanced safety. Volume 3. Evaluation of commercial steels. (B22, E22). | 479433 |
| design basis accidents | |
| Estimated airborne release of plutonium from Westinghouse Cheswick site as a result of postulated damage from severe wind and seismic hazard. (C52, C54). | 494420 |
| environment | |
| Environmental consequences of postulated plutonium releases from the Babcock and Wilcox Plant, Leechburg, Pennsylvania, as a result of severe natural phenomena. (C21, B33, B31, B32). | 487301 |
| finite element method | |
| Finite element random vibration method for soil-structure interaction analysis. (C52, F51). | 461284 |
| forecasting | |
| Gases in groundwater. (B11). | 481650 |
| ground motion | |
| Methods for prediction of strong earthquake ground motion. (C52; EQRISK, for finding uniform risk spectra; SYNACC, for generating synthetic accelerograms). | 487597 |
| Regionalization of ground motion attenuation in the conterminous United States. (C52). [Data] | 494401 |
| Review of earthquake vibratory ground motion intensity attenuation relationships. (C52). | 487618 |
| Site soil column considerations in seismic hazard analysis. (C52). | 466277 |
| israel | |
| The probable maximum earthquake magnitude associated with the Jordan rift. (C52). | 476723 |
| mechanical structures | |
| The effect of rotatory inertia on the dynamic response of cantilever structures. (C52). | 461244 |
| mechanical vibrations | |
| Finite element random vibration method for soil-structure interaction analysis. (C52, F51). | 461284 |
| Seismic stresses of piping systems in function of vibration velocities. (E22). | 470534 |
| nuclear power plants | |
| Post-earthquake evaluation of nuclear piping systems. (C52). | 461251 |
| reactor core restrainers | |
| Design of steel energy absorbing restrainers and their incorporation into nuclear power plants for enhanced safety. Volume 3. Evaluation of commercial steels. (B22, E22). | 479433 |
| reactor sites | |
| The probable maximum earthquake magnitude associated with the Jordan rift. (C52). | 476723 |
| risk analysis | |
| Evaluation of the incremental seismic risk due to the presence of nuclear power plants. (C52). | 487518 |
| Methods for prediction of strong earthquake ground motion. (C52; EQRISK, for finding uniform risk spectra; SYNACC, for | |

- generating synthetic accelerograms). 487597
- Study of the regional tectonics and seismicity of eastern Kansas: summary of project activities and results to the end of the second year, or September 30, 1979. (C52; Nemaha Uplift and related structures). 476728
- seismic detection**
- Methods to develop site specific spectra and a review of the important parameters that influence the spectra. (C52). 487413
- seismic effects**
- Estimate of airborne release of plutonium from Babcock and Wilcox plant as a result of severe wind hazard and earthquake. (C52, B33). 473242
- Site soil column considerations in seismic hazard analysis. (C52). 466277
- Studies for geologic storage of radioactive waste in the southeast. (E52; National Waste Terminal Storage). [Data] 461971
- seismic waves**
- Assessment of seismic wave effects on soil-structure interaction. (C52). 461177
- Effective seismic input through rigid foundation filtering. (C52). 461278
- simulation**
- Rocking and overturning response of rigid bodies to earthquake motions: a report of an analytical and experimental study on the rocking and overturning response of rigid blocks to simultaneous horizontal and vertical accelerations. (E16). 470367
- sweden**
- Swedish earthquakes and acceleration probabilities. (C52). [Data] 480150
- variations**
- Cyclic characteristics of earthquake time histories. (C52, F51). 461219
- EBR-2 REACTOR:**
- cold traps**
- Control of oxygen, hydrogen, and tritium in EBR-II sodium systems. (E36). 461801
- fuel assemblies**
- Performance of EBR-II MARK-II metallic driver fuel up to 675°C. (E35). 466722
- fuel cans**
- Analysis of various NDT techniques to determine their feasibility for detecting thin layers of ferrite on Type 316 stainless steel. (B25, E35, E17). 479535
- fuel cycle**
- Second electrolytic dissolution campaign of EBR-II fuel at ICPP. (B16). 479337
- neutron spectra**
- EBR-II spectral parameters, Run 75D. (E35). 488154
- radioactive wastes**
- Radioactive waste management at a Liquid Metal Fast Breeder Reactor. (E50, E35). 492226
- reactor cores**
- Measurements of subassembly and core temperature distributions in an LMFB. (C52, E35, E36). 480149
- safety engineering**
- Initial data collection efforts of CREDO. Sodium valve failures. (E35). 463667
- ECCS:**
- See also CORE FLOODING SYSTEMS; CORE SPRAY SYSTEMS; HIGH PRESSURE COOLANT INJECTION; LOW PRESSURE COOLANT INJECTION
- Axial model of an imbalanced flow and its application to a loss-of-coolant accident. The 'Clystere' code system. (E32). 491881
- Development of in-vessel reflood instrumentation at ORNL. (C52, E32, E42; PWR). 480051
- bwr type reactors**
- BWR emergency core cooling investigations. Spray cooling heat transfer experiment in a full scale BWR bundle mock-up. (E31, E22). 461674
- computer codes**
- Report on the results of studies on revised ECCS evaluation models for LWR power plants. (C52). 476713
- flow regulators**
- Operation and control device in the abnormal state of a nuclear power plant. (E24). 473840
- fluid flow**
- Overview of NRC's emergency core coolant bypass research. (C52, E32, E11; PWR). 487411
- RAP: a simple core reflood analysis program. (C52, E31, E32, E11; BWR; PWR). 487542
- heat transfer**
- Analysis of superheated wall effects during refill at small scale. (C52, E32; PWR). 487455
- htgr type reactors**
- Emergency core cooling method for a HTGR type reactor. (E33). 470710
- hydraulics**
- Analysis of superheated wall effects during refill at small scale. (C52, E32; PWR). 487455
- Effect of scale on two-phase countercurrent flow flooding in annuli. Final report, April 1978 - March 1979. (C52, E31, E32; PWR; BWR). 494427
- hydrodynamics**
- ECC Bypass scaling. (C52). 494428
- performance**
- Analysis of small breaks in the reactor coolant pump discharge piping for the B and W lowered loop 177 FA plants. (C52, E32; PWR). 461171
- Report on the results of studies on revised ECCS evaluation models for LWR power plants. (C52). 476713
- Scaling of pressure and subcooling for countercurrent flow. Quarterly progress report, 1 April-30 June 1978. (C52, E32). 487567
- Status report on ECC penetration scaling research. (C52, E32; PWR). 480036
- performance testing**
- Experiment data report for Semiscale MOD-3 reflood heat transfer tests S-07-5 and S-07-5A (baseline test series). (C52, E32, E11; PWR). 461191
- Experimental operating specification tests S-08-1 through S-08-08. Semiscale Mod-3 UHI test series. (C52, E32; PWR). 466304
- pwr type reactors**
- Emergency cooling and/or afterheat removal system of a nuclear reactor. (E32). 470676
- reliability**
- Impact of component outages on ECCS/ECI unavailability. (C52, E31, E32). 487559
- Probabilistic evaluation of mispositioned ECCS motor operated valves in Westinghouse NSSS. (C52, E33). 487404
- two-phase flow**
- Flooding in multi-channel two-phase counterflow. (C52, E32, E11; PWR). 469968
- Preliminary study of annulus ECC flow oscillations. Research project 347-1, Interim report August 1978. (C52, E32, E11; PWR). 469956
- ECHINODERMS:**
- See also SEA URCHINS
- growth**
- Population studies of echinoderms and growth and mortality of sea cucumbers. (B32). 490826
- population dynamics**
- Population studies of echinoderms and growth and mortality of sea cucumbers. (B32). 490826
- ECN:**
- (Energieonderzoek Centrum Nederland; prior to 1 August 1976 known as Reactor Centrum Nederland, and documents written before that date should be indexed to RCN.)
- coordinated research programs**
- Annual report 1978. (F61, E35, E36). 485262
- ECOLOGICAL COMMUNITIES:**
- See ECOSYSTEMS
- ECOLOGICAL CONCENTRATION:**
- See also RADIOECOLOGICAL CONCENTRATION
- ECOLOGY:**
- See also RADIOECOLOGY
- Ecology. (C22). 482109
- data acquisition**
- Chesapeake Bay baseline data acquisition, appendix IX. Wetlands alteration. Final report, 1973-78. (C22, C52, F30). 494347
- ECONOMIC DEVELOPMENT:**
- energy consumption**
- On the relationship between GDP and energy consumption. (F11). 471112
- ECONOMICS:**
- energy sources**
- Science of mineral deposits and economics of energy. (F11, B31, F12). 466911
- ECOSYSTEMS:**
- See also AQUATIC ECOSYSTEMS; TERRESTRIAL ECOSYSTEMS
- Environmental Resources Section. (F30). 482951
- mathematical models**
- Ecosystem Studies Program. (C52). 480160
- population dynamics**
- Stochastic model of the Isle Royale biome. (F50). 488504
- systems analysis**
- Ecosystem Studies Program. (C52). 480160
- ECR HEATING:**
- Annual progress report of the Grenoble Research Group. January 1 to December 31, 1977. (A14). 489101
- Electron cyclotron resonance heating of tandem mirrors. (A14). 464445
- Wall effects on the absorption of electron cyclotron waves in an EBT plasma. (A14). 467706
- Wave propagation and absorption near the electron-cyclotron layer in the 'THOR' device. (A14). 489253
- Wave trajectory and electron cyclotron heating in toroidal plasmas. (A14). 464492
- cold plasma**
- Electron cyclotron heating in high density toroidal plasmas. (A14). 459938
- electron plasma waves**
- Electron cyclotron heating in high density toroidal plasmas. (A14). 459938
- elmo bumpy torus**
- Electron cyclotron heating for Bumpy Torus. (A14). 489200
- A theoretical study of microwave heating in ELMO Bumpy Torus. (A14). 464259
- hot plasma**
- Electron temperature measurements from cyclotron emission in T - 10 Tokamak. (A14). 489124
- ion sources**
- Electron cyclotron resonance (E.C.R.) multiply charged ion sources. (E16, A14). 494777
- microwave tubes**
- Some space charge phenomena in Gyrotrons. (A14). 464421
- parametric instabilities**
- Nonlinear dissipation of a finite bandwidth radiation in plasma near electron cyclotron harmonic resonances. (A14). 464480
- RF-heating in stationary systems. (A14). 489305

- plasma density
RF preionization in Tokamak Thor: effect of sub-harmonics of Ω_0 on the absorption of the wave. (A14). 464287
- quasilinear problems
Wave heating of toroidal plasmas at electron cyclotron harmonics. (A14). 464306
- reviews
Electron-cyclotron heating of toroidal plasma with emphasis on results from the ELMO Bumpy Torus (EBT). (A14). 485686
- ECUADOR:
hydrology
Importance of infiltration from the Chimbo River in Ecuador to groundwater. A study based on environmental isotope variations. (B32). [Data] 460893
- EDDINGTON THEORY:
photon transport
The generalized Eddington approximation in radiative transfer. (A15). 471862
- EDDY CURRENT TESTING:
The control of stainless steel tubes and wires of small diameter by the eddy current method. (E17). 473755
Investigating the computer analysis of eddy current NDT data. (E17). [Data] 473740
Multifrequency eddy current system for steam generator tubing inspection. Volume 1: Progress Summary. Interim report. (E22). 487983
- austenitic steels
Investigations about the applications of pulsed eddy currents of thick-walled test specimen. (E17). 470486
- cracks
Device to detect flows by the eddy current method in a workpiece moved along working path. (E17). 470432
- data processing
Eddy current examination of heat exchanger tubes with a high speed probe injection/puller system. (E17). 470468
Eddy current test method with multi channel signal evaluation. (E17). 470451
- ferromagnetic materials
Basic examinations concerning eddy current testing of ferromagnetic materials. (E17). 470461
- measuring instruments
Digital eddy current equipment for manual and fully automated inspection. (E42, E17). 471014
- numerical solution
Multifrequency eddy current system for steam generator tubing inspection. Volume 2: analytical studies. Interim report. (E17, E22). 487946
- EDDY CURRENTS:
(Limited to electric currents.)
tokamak devices
Quantitative evaluation of eddy currents in the vacuum chamber with tokamak circuit. (A14). 467642
- vacuum systems
Quantitative evaluation of eddy currents in the vacuum chamber with tokamak circuit. (A14). 467642
- EDEMA:
radiation effects
Adjuvant radiation therapy for regional nodal metastases from malignant melanoma. A randomized, prospective study. (C15; Complications of local nodal irradiation). 469689
Effect of cobalt-60 radiation on response to endodontic therapy in monkeys. (C14, C15, C63; Simulation of effects of prior radiotherapy on subsequent dental therapy response). 461049
Effects of chronic ingestion of tritiated water on prenatal brain development. (C21; Rats). 473104
Influence of localized preinoculation irradiation of the foot on lymphatic metastasis from a primary tumor growing in the foot. (C14, C63). 476567
Predictive model of early mortality following acute inhalation of PuO_2 aerosols. (C21; Extrapolation of beagle data to man). 491041
Radiation therapy in lymphomatoid granulomatosis. (C15, C63). 461077
Radiation therapy for early stage carcinoma of the glottic larynx. (C15, C63; Acute effects on arytenoid cartilages). 466161
Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- EDF-1 REACTOR:
See CHINON-1 REACTOR
- EDTA:
decontamination
Influence of iron cations on EDTA effectiveness. (C21). 466227
- labelling
A new technetium-99m-EDTA complex production technique for renal studies. (B13, C21). 484068
- radiolysis
Radiolysis of aqueous solutions of ethylenediaminetetraacetatocobalt(II) and (III). (B14). 472516
- thermodynamic properties
Thermodynamic properties of zirconium (4) reaction with ethylenediaminetetraacetic acid. (B12). 465417
- EDUCATION:
plutonium
A plutonium safety training program. (C50). 461160
- research programs
Research report, for 1977-1978. (C60, C62). 473327
- EDWIN L. HATCH-1 REACTOR:
See HATCH-1 REACTOR
- EFFECTIVE HALF-LIFE:
See BIOLOGICAL HALF-LIFE
- EFFECTIVE RANGE THEORY:
neutrons
 $^2\text{H}(n, nn)p$ reaction at 21.5 MeV. (A34). 483928
- soft-core potential
High-lying intermediate excitations in the nuclear effective interaction with a super-soft-core potential. (A33). 464994
- EFFLUENTS (GASEOUS):
See GASEOUS WASTES
- EFFLUENTS (LIQUID):
See LIQUID WASTES
- EFFLUENTS (RADIOACTIVE):
See RADIOACTIVE EFFLUENTS
- EFFLUENTS (THERMAL):
See THERMAL EFFLUENTS
- EFFLUENTS, CHEMICAL:
See CHEMICAL EFFLUENTS
- EFR REACTOR:
See JOYO REACTOR
- EGCR REACTOR:
reactor materials
Modified Weibull theory for the strength of granular brittle material. (B24, E33). 486993
- EGGS:
entrainment
Entrainment of ichthyoplankton and larval fishes during cooling water withdrawal. (B32). 479667
- radiobiology
Experimental methods for radiobiological investigations with developing fish eggs. (C14). [Data] 484529
Experimental methods for radiobiological studies with developing fish eggs. Bioaccumulation and retention of some radionuclides by developing eggs and larvae of the rainbow trout. (C14). [Data] 484526
- EGYPTIAN ARAB REPUBLIC:
age estimation
Radiometric Rb-Sr isochron ages for Wardi El kareim volcanics. (B31). 490810
- nuclear power plants
Problems of implementation of the first nuclear power plant in developing countries with particular reference to Egypt. (F61). 466965
- radiation monitoring
Environmental airborne radioactivity survey around Burg El Arab Area, Western desert, Egypt. (B33). 490851
- EHF RADIATION:
See MICROWAVE RADIATION
- EHRlich ASCITES TUMOR:
biological radiation effects
Fast neutron biological effect on the animal normal cells and neoplasms. (C11). 479756
The localization of the experimental tumor regrowth after irradiation. (C14). 466138
- EIGENSTATES:
quantum mechanics
Time-dependent invariants and stable coherent states. (A11). 474507
- EIGENVALUES:
algorithms
Continued fraction calculation of any number of eigenvalues of tridiagonal matrices. (A11). 462075
- boundary conditions
Method for obtaining formulae for eigenvalue bounds. (A11). 488612
A variational principle for bounds for eigenvalues. (A11). 462092
- energy levels
Complex energy eigenvalues of a linear potential with a parabolical barrier. (A11, A33). 492458
- faddeev equations
On the threshold behaviour of the eigenvalues of the Faddeev equation kernel. (A33). 465035
- functionals
A variational principle for bounds for eigenvalues. (A11). 462092
- mathematical models
Bound-state calculations for certain model potentials by means of a phase-integral method. (A11). 488731
Phase-integral method applied to the symmetric double-well potential problem. (A11). 488691
- EIKONAL APPROXIMATION:
electron detachment
Effect of target distortion on electron detachment differential cross section for $\text{H}^- + \text{He}$ and $\text{H}^- + \text{H}$ collisions. (A12). 464033
- EINSTEIN FIELD EQUATIONS:
analytical solution
The axially symmetric stationary vacuum field equations in Einstein's theory of general relativity. (A11). 474526
Axially symmetric, static vacuum fields. (A11). 481005
Baeklund transformations of axially symmetric stationary gravitational fields. (A11). 462087
Charged elastic fluid sphere in general relativity. (A11). 481004
Cosmological solution of Einstein's equations in general relativity. (A11). 467108
Neutron stars with equation of state given by nuclear Thomas-Fermi model. (A11, A15). 459661
New exact solution to the Einstein-Dirac equations. (A11). 477666
Physical solutions to general-relativistic fluid spheres. (A11). 467053
Quantum linearization instabilities. (A11). 471275
A radiating charged particle in Einstein's universe. (A15). 462465
Radiating fluid spheres in general relativity. (A15, A11). 489415
Remarks to homogeneous solutions of Einstein's field equations. (A11). 483091

| | |
|--|--------|
| The role of group theory in the quest for exact solutions of Einstein's field equations. (A11). | 483021 |
| A technique for generating solutions of Einstein's equation. (A11). | 462096 |
| Yet another formulation of the Einstein equations for stationary axisymmetry. (A11). | 477606 |
| asymptotic solutions | |
| Generation of asymptotically flat, stationary space-times with any number of parameters. (A11). | 463894 |
| Relativistic Kepler problem. II. Asymptotic behavior of the field in the infinite past. (A11). | 488738 |
| Static and stationary axially symmetric gravitational fields of bounded sources. (A11). | 463892 |
| cauchy problem | |
| Linearization stability of gravitational and gauge fields. (A11). | 467005 |
| causality | |
| Rotating universe with successive causal and noncausal regions. (A15, A11). | 489599 |
| cosmology | |
| Anisotropic cosmological solutions in the gravitational theory with quadratic invariants. (A11). | 474514 |
| eigenvalues | |
| Complete integrability of the stationary, axially symmetric Einstein equations. (A11). | 463907 |
| Stationary, axially symmetric solutions of Jordan's five-dimensional, unified theory. (A11). | 488568 |
| euclidean space | |
| Solutions to Euclidean gravity for infinitely many instantons. (A11). | 488719 |
| functional analysis | |
| On physical interpretation of Einstein spaces. (A11). | 488687 |
| gauge invariance | |
| Gauge-invariant perturbations on most general spherically symmetric space-times. (A11, A15). | 485308 |
| Solution for gravity coupled to non-Abelian plane waves. (A11). | 467057 |
| Static axially symmetric solutions of self-dual SU(2) gauge fields in Euclidean four-dimensional space. (A11). | 467142 |
| general relativity theory | |
| Charged perfect fluid in general relativity. (A11). | 480975 |
| gravitational collapse | |
| Radiating axisymmetric metric. (A11). | 481002 |
| gravitational waves | |
| Cosmological model with gravitational and scalar waves. (A15, A11). | 475227 |
| On gravitational wave energy in Einstein gravitational theory. (A11). | 483024 |
| On some types of exact solutions of the Einstein equation. 2. (A11). | 474493 |
| instantons | |
| Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). | 471285 |
| integral transformations | |
| Integration of the Einstein equations by the inverse scattering problem technique and calculation of the exact soliton solutions. (A11). | 492392 |
| integrals | |
| Integral formulation of Einstein's equations and Mach's principle. (A11). | 467101 |
| irreducible representations | |
| Irreducible mass for the Tomimatsu-Sato space-time. (A15). | 471776 |
| iterative methods | |
| Convergent and asymptotic iteration methods in general relativity. (A11). | 467024 |
| klein-gordon equation | |
| A theorem on the solutions of the Einstein-Klein-Gordon equations in a stationary axially symmetrical space-time. (A11). | 471282 |
| lagrangian function | |
| A new Lagrangian for the vacuum Einstein equations and its tetrad form. (A11). | 474498 |
| Super-Lagrangians. (A21, A11). | 478407 |
| nuclear potential | |
| a tensor theory of gravitation in a curved metric on a flat background. (A11). | 488590 |
| proca equations | |
| Representation of the Einstein-Proca field by an $A_4\text{sup}^*$. (A11). | 488563 |
| renormalization | |
| On renormalisation of the quantum stress tensor in curved space-time by dimensional regularisation. (A11). | 462066 |
| ricci tensor | |
| A classification system for one Killing vector solutions of Einstein's equations. (A11). | 467066 |
| riemann space | |
| Geometric properties of Dirac fields in a Riemannian space-time. (A11). | 488703 |
| Geometric properties of Dirac fields in a Riemannian space-time. (A11). | 488704 |
| scalar fields | |
| Cosmological model with gravitational and scalar waves. (A15, A11). | 475227 |
| Frequency shift of radiation from spherical objects in Brans-Dicke theory of gravitation. (A11). | 488544 |
| Spherical symmetric solutions of the Einstein equations for a conformal invariant scalar field. (A11). | 492450 |
| solitons | |
| Integration of the Einstein equations by the inverse scattering problem technique and calculation of the exact soliton solutions. (A11). | 492392 |

| | |
|---|--------|
| space-time | |
| Birkhoff's theorem and Einstein's equations. (A11). | 488692 |
| Gauge-invariant perturbations on most general spherically symmetric space-times. (A11, A15). | 485308 |
| Generation of exact solutions to the Einstein field equations for homogeneous space-time. (A11). | 463893 |
| Relativistic Kepler problem. II. Asymptotic behavior of the field in the infinite past. (A11). | 488738 |
| stability | |
| Linearization stability of gravitational and gauge fields. (A11). | 467005 |
| su-2 groups | |
| Static axially symmetric solutions of self-dual SU(2) gauge fields in Euclidean four-dimensional space. (A11). | 467142 |
| tensors | |
| Birkhoff's theorem and Einstein's equations. (A11). | 488692 |
| vacuum states | |
| The axially symmetric stationary vacuum field equations in Einstein's theory of general relativity. (A11). | 474526 |
| variational methods | |
| Representation of the Einstein-Proca field by an $A_4\text{sup}^*$. (A11). | 488563 |
| EINSTEIN GRAVITATION THEORY: | |
| See GENERAL RELATIVITY THEORY | |
| EINSTEIN-DE SITTER MODEL: | |
| See COSMOLOGICAL MODELS | |
| EINSTEIN-MAXWELL EQUATIONS: | |
| L-A pair of a bound system of equations of gravitational and electromagnetic fields. (A11). | 492391 |
| analytical solution | |
| Charged stationary axis-symmetric metrics depending on arbitrary functions. (A15). | 471869 |
| A class of axisymmetric stationary exact solutions of Einstein-Maxwell equations. (A11). | 462089 |
| Comment on the solution of static, axially symmetric Einstein-Maxwell fields. (A11). | 485331 |
| Cylindrically symmetric stationary fields in general relativity. (A11). | 459703 |
| Cylindrically symmetric fluid distribution and magnetic energy in general relativity. (A11). | 467107 |
| Generation of the Lewis solutions from the Weyl solutions. (A11). | 488730 |
| Majumdar-Papapetrou class of nonstatic cylindrically symmetric Brans-Dicke-Maxwell fields. (A11). | 471302 |
| New exact Einstein-Maxwell fields for a massless charge. (A11). | 471300 |
| A rotating universe with violation of causality. (A15). | 475389 |
| A three-parameter solution of the static Einstein-Maxwell equations. (A11). | 477588 |
| Unicity of the Bianchi identity solutions. (A11). | 471224 |
| asymptotic solutions | |
| A class of axisymmetric stationary exact solutions of Einstein-Maxwell equations. (A11). | 462089 |
| axial symmetry | |
| Exact solutions of the stationary axisymmetric Einstein-Maxwell equations. (A11). | 467132 |
| cylindrical configuration | |
| Cylindrically symmetric stationary fields in general relativity. (A11). | 459703 |
| gauge invariance | |
| Unicity of the Bianchi identity solutions. (A11). | 471224 |
| space-time | |
| Evolution of the Killing fields for a dust matter space-time. (A11). | 462069 |
| Symmetry mappings in Einstein-Maxwell space-times. (A11). | 471267 |
| symmetry | |
| SU(2, 1) symmetry of the Einstein-Maxwell fields, 2. (A11). | 467131 |
| variational methods | |
| Static Einstein-Maxwell field equations. (A11). | 463882 |
| EINSTEIN-SCHROEDINGER THEORY: | |
| Equivalence of Einstein's 1925 unified field theory and his relativistic theory of the nonsymmetric field. (A11). | 474466 |
| Physical interpretation of and light propagation in the nonsymmetric unified field theory. (A11). | 459657 |
| faraday induction | |
| Faraday's electromagnetic induction in Einstein's unified field theory. (A11). | 480990 |
| field equations | |
| On plane wave solutions in the nonsymmetrical unified Finzi field theory. (A11). | 485355 |
| Particle solutions in a unified field theory. (A11). | 488633 |
| superfluid model | |
| Superfluid as a source of all interactions. (A11). | 467127 |
| transformations | |
| Geometrical transformation laws of fields in superunified theories. (A11). | 488667 |
| EINSTEINIUM: | |
| adsorption | |
| Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52). | 461939 |
| fluorescence | |
| Precision measurement of K-shell fluorescence yields in actinide elements. (A12). [Data] | 467150 |
| EINSTEINIUM COMPOUNDS: | |
| reduction | |
| Electrochemical reduction by radiopolarography of some transplutonium aqueous ions. (B13). [Data] | 460568 |
| EINSTEINIUM ISOTOPES: | |
| See also EINSTEINIUM 251; EINSTEINIUM 253 | |

EINSTEINIUM 251:

- alpha decay**
Proton states in ^{247}Bk excited by $^{246}\text{Cm}(\alpha, t)$ reaction and ^{247}Cf (electron capture) and $^{251}\text{Es}(\alpha)$ decays. (A34). 490115
- EINSTEINIUM 253:**
- adsorption**
Consequences of radiation from sorbed transplutonium elements on clays selected for waste isolation. (E52). 492259
- delayed radiation effects**
Late effects of inhaled $^{251}\text{Es}(\text{NO}_3)_3$ in the rat. (C21). [Data] 473037
- isotope production**
Production of einsteinium and fermium in reactors. (D13). 466444
- EINSTEINIUM 254 TARGET:**
- neutron reactions**
Dependence of neutron yield on fragment mass for several low-energy fissioning systems. (A33). 486229
- EL-3 REACTOR:**
- physical radiation effects**
Damage dosimetry in EL-3 reflector in view of irradiating steels under a strong thermal flux. (B25). 462933
- ELASTIC SCATTERING:**
See also COMPTON EFFECT; COULOMB SCATTERING; MOTT SCATTERING; POTENTIAL SCATTERING; RUTHERFORD SCATTERING
- adiabatic approximation**
Adiabatic treatment of elastic deuteron-nucleus scattering. (A33). 472135
- boundary conditions**
Natural boundary condition methods for the microscopic treatment of composite-particle scattering. (A33). 483725
- classical mechanics**
Unified formalism for quantum and classical scattering theories. (A11). 485364
- computer codes**
Program for calculating cross sections and phases of the elastic scattering of 0, 1/2, 1, 3/2 spin particles with respect to the optical model. (F51). 495274
- differential cross sections**
 πp elastic scattering at very small transfer between 30 GeV and 140 GeV: experimental results, interpretation at 140 GeV. (A22). 481442
- Contribution of orbiting to differential cross sections. (A12). 467170
- eikonal approximation**
Eikonal approximation calculations of e-H and e-He scattering using an energy-dependent polarization potential. (A12). 459767
- generator-coordinate method**
Natural boundary condition methods for the microscopic treatment of composite-particle scattering. (A33). 483725
- helium 3 reactions**
Elastic scattering of 119 MeV ^3He particles and mass number dependence of optical potential parameter. (A34). [Data] 490181
- neutron beams**
Neutron scattering on systems with intermediate valence (IV-systems). (A13). [Data] 485619
- optical models**
Microscopic analysis of $p\text{-}^{40}\text{Ca}$ elastic scattering at 30.3 MeV. (A33). 481471
- particle-hole model**
Isobar-hole description of pion elastic scattering and the pion-nuclear many-body problem. (A33). 483788
- pion plus-proton interactions**
 $\pi^+ p$ elastic scattering and the peripheral pomeron. (A11). 480989
- prompt electrons**
The interaction of swift electrons with liquid water. (C11, C55). 465924
- proton reactions**
Determination of ^{40}Ca and ^{48}Ca matter densities by 600 MeV and 1 GeV proton elastic scattering. (A33). [Data] 493179
- quantum mechanics**
Unified formalism for quantum and classical scattering theories. (A11). 485364
- s matrix**
Consequences of crossed channel structure for high energy elastic scattering. (A21). 468074
- scattering amplitudes**
Eikonal approximation calculations of e-H and e-He scattering using an energy-dependent polarization potential. (A12). 459767
- New sum rules for the γe and γN scattering amplitudes. (A21). 478474
- Unitarity bounds on elastic absorptive amplitudes involving total cross section, forward slope and curvature. (A11). 488706
- spin orientation**
Polarization in proton-nucleus elastic scattering around 1 GeV. (A33). 468266
- three-body problem**
Relativistic three-body model of pion-deuteron elastic scattering. (A33). 481487
- total cross sections**
Electron scattering in high voltage electron microscopy. (A32). 475695
- wave functions**
On the global nature of the semiclassical wavefunction describing elastic scattering in several coordinate dimensions. (A11). 483013
- woods-saxon potential**
Determination of the potential for back-angle enhanced elastic heavy-ion scattering: application to the scattering of ^{16}O on ^{28}Si . (A33). 472177

ELASTOMERS:

See also NATURAL RUBBER; NEOPRENE; RUBBERS

bonding

- Improving bondability to RTV silicone elastomer using rf-activated gas. (B24). 486979
- chemical radiation effects**
Ionizing radiation effects on technological materials. (B25). 479554
- chemical reaction yield**
Transparent fluorocarbon-based semi-IPN elastomers by high-energy radiation methods. (B14). [Data] 486748
- materials testing**
Presentation of a testing device for elastomers. (E17). 466571
- mechanical vibrations**
Presentation of a testing device for elastomers. (E17). 466571
- ELECTRETS:**
- dosemeters**
Electret dosimeter and its principle. (E41). 492110
- ELECTRIC ARCS:**
- argon**
Shape of argon spectral lines emitted from an electric arc ($P=760$ Torr). Study and application of pressure broadening. (A12). 488857
- heat transfer**
Theoretical analysis of constricted electric arc by iteration method. (A13). 489025
- ion sources**
Electrical oscillations in a Freeman ion source. (D14). 476836
- ion temperature**
Light scattering from thermal density fluctuations using a CW-CO₂-laser and heterodyne detection. (A14). 464408
- meetings**
Program and abstracts. (A13, E13; Buffalo, New York, October 17-20, 1978). 492695
- plasma**
Model applied to an argon plasma. Application for stationary electric arc. (A12). 488787
- sputtering**
On sputtering in vacuum arcs. (A13). 489027
- ELECTRIC BRIDGES:**
- critical current**
Anomalous hysteresis of the critical current in long proximity-effect bridges. (E12). 470315
- Static properties of two- and three-dimensional superconducting constrictions. (A17). 467992
- sodium**
Electric measuring instruments for sodium equipment at the Nuclear Research Institute, Rez. (E42). 463762
- ELECTRIC CABLES:**
See also COAXIAL CABLES; SUPERCONDUCTING CABLES
- boreholes**
Development of electrical cable penetration for secondary containment vessel of BWR type nuclear power plants. (E22). [Data] 491752
- containment buildings**
Development of leak-proof cables for simplifying cable penetrations across reactor containment building. (C52, E13). 463384
- fire resistance**
Cable tray fire tests. (E31, E32; PWR; BWR). 461681
- Performance evaluation of flame resisting cables for instrumentation. (E22). [Data] 491724
- jackets**
Method for accelerated aging under combined environmental stress conditions. (B24). 486990
- leak testing**
Development of leak-proof cables for simplifying cable penetrations across reactor containment building. (C52, E13). 463384
- performance**
"Beamex ER", new cross-linked polymeric insulated heat- and flame-resistant wires. (E22). 477127
- Trends and required performance of flame resistant cables for nuclear power plants. (E22). 491744
- performance testing**
Cable tray fire tests. (E31, E32; PWR; BWR). 461681
- Performance evaluation of flame resisting cables for instrumentation. (E22). [Data] 491724
- Qualification of non-class 1E cables for nuclear power plants. (E31, E32). [Data] 491858
- Qualification of class 1E cables for nuclear power plants. (E31, E32). [Data] 491860
- physical radiation effects**
Definition of the linear region of x-ray-induced cable response. (E43). 488312
- reactor instrumentation**
Single cables for nuclear instrumentation : Experiences at TAPS. (E13, E31). 466497
- seals**
Device for providing a leak-tight penetration for electric cables through a reactor vault roof. (E35; Patent; LMFBR). 480682
- A system of penetration of a nuclear reactor slab for measurement cables. (E22; LMFBR type reactors). 470521
- specifications**
Single cables for nuclear instrumentation : Experiences at TAPS. (E13, E31). 466497
- ELECTRIC CHARGES:**
See also POINT CHARGE
- charge conservation**
Is the electric charge conserved. (A11). 488635
- conservation laws**
Is the electric charge conserved. (A11). 488635
- lagrangian field theory**
Canonical formulation of the quantum field. (A11). 483002

- quantum field theory**
 Lorentz invariance from classical particle paths in quantum field theory of electric and magnetic charge. (A11). 474421
- selection rules**
 Social currents in weak interactions. (A21). 486057
- weinberg lepton model**
 Charge-monopole duality and the phases of non-Abelian gauge theories. (A21, A11). 486078
- ELECTRIC COILS:**
See also MAGNET COILS; PULSED MAGNET COILS; SOLENOIDS
- charge density**
 Angular asymmetries in a shielded pair line. (A11). [Data] 492413
- confinement**
 Radio-frequency plugging of a high density plasma. (A14). 467714
- fabrication**
 Automatic tension control for winding superconducting coils. (E13, E12). 473634
- nmr spectrometers**
 x, y, yz, xz shims based on plane conductors for high-resolution NMR spectrometers. (E42). 477439
- thermonuclear devices**
 Poloidal coil for thermonuclear device. (A14). 489379
- ELECTRIC CONDENSERS:**
See CAPACITORS
- ELECTRIC CONDUCTIVITY:**
See also PHOTOCONDUCTIVITY; SUPERCONDUCTIVITY
- chemical radiation effects**
 Induced electrical conductivity of gamma-irradiated 8-hydroxyquinoline metal complexes. (B14). 476176
- dislocations**
 Role of dislocation scattering for the low-temperature electrical resistivity. (A13). 464130
- elasticity**
 Elastoresistivity of impurities in copper. (B25). 490721
- electron correlation**
 Single particle Green's functions calculation of the electrical conductivity of strong correlated systems. (A13). 481152
- green function**
 Single particle Green's functions calculation of the electrical conductivity of strong correlated systems. (A13). 481152
- instability**
 Fluctuation spectra near threshold of a current instability. (A11). 492400
- physical radiation effects**
 Effect of elongation on electrical conduction in gamma-rays irradiated low density polyethylene. (A13). 464195
- Electrical conduction of ethylene-vinyl acetate copolymer and blend. (B25). 462955
- Influence of acceptor-donor additives on radiation electric conductivity of some polymeric materials. (B25). 494164
- Ionic conductivity in irradiated KCL. (E40). 477312
- plasma**
 Radial distribution function for the azimuthal conductivity of an arc plasma. (A14). 492824
- potassium chlorides**
 Ionic conductivity in irradiated KCL. (E40). 477312
- pressure dependence**
 The electrical conductivity of caesium plasma. (A14). 483323
- spatial distribution**
 Radial distribution function for the azimuthal conductivity of an arc plasma. (A14). 492824
- temperature dependence**
 Metal-insulator transitions in Cr-doped V_2O_5 by x-ray and ultraviolet photoelectron spectroscopy. (A12). 467214
- ELECTRIC CONDUCTORS:**
breakdown
 Microbreakdowns (partial discharges). Microphonics. Characteristics - Recommendations on the design and use of the equipment - Test methods. Nuclear electronics equipment for control and monitoring panel. (E41). 492061
- materials testing**
 Evaluation of candidate magnetohydrodynamic materials for the U-02 Phase III test. (A16, B15, B23). 489672
- Evaluation of candidate magnetohydrodynamic materials for the U-02 Phase III test. (A16, B15, B23). 485956
- spatial dose distributions**
 Calculation of absorbed doses for electric wires irradiated by accelerated electron beams. (A32). 464930
- ELECTRIC CONTACTORS:**
See SWITCHES
- ELECTRIC CONTACTS:**
microwave radiation
 Investigation of subharmonic structure on the volt-ampere characteristics of superconducting point junctions. (A17). 493024
- remote handling equipment**
 Remote electric contacts for MA currents. (E16). 477081
- ELECTRIC CONTROLLERS:**
microprocessors
 CAMAC multipurpose microprocessor controller. (E42). 492194
- Microprocessors in CAMAC modules and controllers. (E42). 492211
- ELECTRIC CURRENTS:**
See also CRITICAL CURRENT; EDDY CURRENTS; ELECTRIC ARCS; ELECTROJETS; RING CURRENTS
- distribution functions**
 Design study of the vertical field coil systems and air-core transformer for tokamaks without conducting shell. (A14). 467711
- equilibrium**
 High-pressure equilibria of a small-aspect-ratio tokamak. (A14). 467728
- ELECTRIC DIPOLE TRANSITIONS:**
See EI-TRANSITIONS
- ELECTRIC DIPOLES:**
giant resonance
 Electric giant resonance by the droplet model. (A33). 472168
- gravitational fields**
 Electric dipole in the gravitational Reissner-Nordstrom field. (A11). 463890
- matrix elements**
 Radial transition integrals involving low or high effective quantum numbers in the Coulomb approximation. (A12). 471384
- ELECTRIC DISCHARGES:**
See also ELECTRIC ARCS; GLOW DISCHARGES; HIGH-FREQUENCY DISCHARGES; PENNING DISCHARGES; TOWNSEND DISCHARGE
- charge density**
 Density and potential distributions of the diffusion plasma column in a coaxial cylindrical discharge tube. (A14). [Data] 464281
- electrophoresis**
 Use of spectroscopic measurements to evaluate cataphoretic segregation. (A14). 478122
- ionization**
 Maximum constriction phase of a weakly ionized discharge in helium. (A14). 489295
- Propagation study of the ionization fronts in a gas subject to an impulse field. (A12). 488809
- kinetics**
 Kinetics of vacuum-ultraviolet continuum from a high-pressure He fast discharge. (A13). 485589
- magnetic field configurations**
 Observations of electric double layers in a magnetised plasma column. (A14). 471734
- plasma diagnostics**
 Observations of electric double layers in a magnetised plasma column. (A14). 471734
- plasma sheath**
 Turbulence caused by the interaction between plasma and electric current in the Focus experiment. (A14). 464266
- plasma simulation**
 Dynamics of tokamak discharges dominated by the trapped-electron instability. (A14). 485757
- potential energy**
 Density and potential distributions of the diffusion plasma column in a coaxial cylindrical discharge tube. (A14). [Data] 464281
- trapped-particle instability**
 Dynamics of tokamak discharges dominated by the trapped-electron instability. (A14). 485757
- ultraviolet radiation**
 Kinetics of vacuum-ultraviolet continuum from a high-pressure He fast discharge. (A13). 485589
- visible radiation**
 Canal rays as atomic light sources. (A12). 488810
- ELECTRIC FIELDS:**
See also COULOMB FIELD
- biological effects**
 Responses of domestic chicks to 60-Hz electrostatic fields. (C61). 461378
- electron beams**
 Formation of spatial-periodical electrostatic field in a magnetolimited electron flow. (E16). 494811
- potential energy**
 Interpretation of the ponderomotive potential for a magnetized particle in a low-frequency wave. (A14). 474970
- schroedinger equation**
 Real energy solutions in a uniform electric field. (A11). 492483
- spectral functions**
 Real energy solutions in a uniform electric field. (A11). 492483
- ELECTRIC FILTERS:**
pulse amplifiers
 Time-dependent filter for spectrometric amplifiers. (E41). 470891
- ELECTRIC FURNACES:**
neutron diffractometers
 Thermal unit for a neutron diffractometer. (E42). 477419
- ELECTRIC GENERATORS:**
 (Excludes the concept DIRECT ENERGY CONVERTERS.)
See also ALTERNATORS; SUPERCONDUCTING GENERATORS; TURBOGENERATORS
- electronic circuits**
 A high stability current source based on operational amplifier UA 741. (E42). 471021
- nuclear power plants**
 Electrical supply for the construction of the first nuclear power plant at Keling. (F11). 471111
- specifications**
 Contra-rotating homopolar motor-generator for energy storage and return. (A14; Patent). 459930
- Experimental power reactor dc generator energy storage study. (A14). 485732
- Homopolar machine for reversible energy storage and transfer systems. (A14; Patent). 464482
- stability**
 A high stability current source based on operational amplifier UA 741. (E42). 471021
- ELECTRIC MEASURING INSTRUMENTS:**
See also ELECTROMETERS; VOLTMETERS
- ELECTRIC MOMENTS:**
See also NUCLEAR ELECTRIC MOMENTS
- ELECTRIC MONOPOLES:**
See ELECTRIC CHARGES

ELECTRIC MOTORS:

- connectors**
Development of connectors for high voltage motors. (E22). [Data] 491753
- monitoring**
Electronic torque monitoring for valve drives. (E13). 484845
- performance testing**
Test program for class 1E d-c motor control center. (C52, E31; BWR steam line rupture effects). 473195
- testing**
Durability testing device. (E32). 473897
- torque**
Electronic torque monitoring for valve drives. (E13). 484845
- ELECTRIC POTENTIAL:**
See also *ELECTROMOTIVE FORCE*
- ELECTRIC POWER:**
- comparative evaluations**
Nuclear power cost and choice of the discount rate. (F11). 463787
- economics**
Nuclear power cost and choice of the discount rate. (F11). 463787
- energy sources**
Net fossil energy savings for alternative mixes in various electric supply systems. (F11). 482929
- environment**
Other impacts. (C52, B32, C21). 494387
- health hazards**
Other impacts. (C52, B32, C21). 494387
- nuclear power plants**
Determination of the socially necessary prime cost and production fund for electric energy under the conditions of its generation in nuclear power stations. (F11). 477490
- production**
Nuclear electricity. (F11). 477496
- radionuclide migration**
Impact of fossil-fuel utilization on environmental contamination with radioactive elements. (C22). 466237
- spark gaps**
A pressurised sparkgap switch for pulse power system HV 200. (E13). 494704
- systems analysis**
Studies on the dynamics of large scale power system. (E31, E32). [Data] 491856
- ELECTRIC PROBES:**
See also *LANGMUIR PROBE*
- penning discharges**
Determination of plasma parameters of the pulse high-voltage penning discharge by the double-probe method with SHF decoupling. (A14). 483299
- perturbation theory**
Highly negative electric probes in a flowing continuum plasma. (A14). 459885
- planetary ionospheres**
Retarding potential analyzer for the Pioneer-Venus orbiter mission. (A15). 478279
- ELECTRIC PULSES:**
See *PULSES*
- ELECTRIC QUADRUPOLE TRANSITION:**
See *E2-TRANSITIONS*
- ELECTRIC RESISTIVITY:**
See *ELECTRIC CONDUCTIVITY*
- ELECTRIC SWITCHES:**
See *SWITCHES*
- ELECTRICAL CONDUCTIVITY:**
See *ELECTRIC CONDUCTIVITY*
- ELECTRICAL EQUIPMENT:**
See also *ANTENNAS; CAPACITORS; CIRCUIT BREAKERS; COAXIAL CABLES; CONDUCTOR DEVICES; CONNECTORS; CRYOTRONS; ELECTRIC BRIDGES; ELECTRIC CABLES; ELECTRIC COILS; ELECTRIC CONTACTS; ELECTRICAL INSULATORS; ELECTROMAGNETS; ELECTROMETERS; INVERTERS; MAGNET COILS; PULSED MAGNET COILS; RECTIFIERS; SOLENOIDS; SUPERCONDUCTING CABLES; SUPERCONDUCTING MAGNETS; SWITCHES; TRANSFORMERS; VOLTMETERS*
- encapsulation**
Stress relief of ceramic components in high voltage assemblies. Final report. (B23). 465691
- equipment protection devices**
Rotation sensor switch. (E13; Patent). 470347
- maintenance**
Maintenance of electrical equipment of nuclear power plants. (E30, E22). 470609
- planning**
Engineering of electrical systems of nuclear power stations for improved reliability. (E34, E31). 470733
- specifications**
Nuclear IEEE Standards and American National Standards on nuclear instrumentation published by IEEE. Volume 2. (E22). 466600
- Nuclear IEEE Standards. Volume 1. (E22). 466599
- ELECTRICAL INSULATION:**
See *DIELECTRIC MATERIALS*
- ELECTRICAL INSULATORS:**
- aluminum oxides**
Improving the voltage holdoff performance of alumina insulators in vacuum through quasimetallizing. (B23). 494075
- brazing**
Development of large rectangular ceramic insulators for ion accelerators for the neutral-beam program. (A14). 485792

- breakdown**
Experience with accelerating tubes. (E16). 480484
- Microbreakdowns (partial discharges). Microphonics. Characteristics - Recommendations on the design and use of the equipment - Test methods. Nuclear electronics equipment for control and monitoring panel. (E41). 492061
- electrolysis**
Some characteristics of metal migration in or on the surface of insulators. (B23, B12). 490673
- flexural strength**
Flexural characteristics of a stack leg. (E16). 482605
- materials testing**
Description of the EBR-II irradiation of insulator materials. (B25, A14). 487042
- Development of large rectangular ceramic insulators for ion accelerators for the neutral-beam program. (A14). 485792
- Evaluation of candidate magnetohydrodynamic materials for the U-02 Phase III test. (A16, B15, B23). 489672
- Results of tests and studies of American materials in the channel of the MHD facility U-02 (Phase III). (A16, B23, B15; LaCrO₃). [Data] 471941
- mechanical properties**
Ceramics for applications in fusion systems. (A14, B25). 467524
- performance**
Improving the voltage holdoff performance of alumina insulators in vacuum through quasimetallizing. (B23). 494075
- physical radiation effects**
Calculation of radiation damage in insulators for fusion reactors. (A14, B25). 485694
- Cryogenic radiation effects on organic insulators. (B25, A14). 487035
- Cryogenic radiation effects on electric insulators. (A14, B25). 475067
- Electron-beam-induced conductivity in thin insulating films. (B25, E43). 494171
- ELECTRICAL PROPERTIES:**
See also *DIELECTRIC PROPERTIES; ELECTRIC CONDUCTIVITY; PERMITTIVITY; PHOTOCONDUCTIVITY; POLARIZABILITY; SUPERCONDUCTIVITY*
- ELECTRICAL RESISTANCE:**
See *ELECTRIC CONDUCTIVITY*
- ELECTRICAL RESISTIVITY:**
See *ELECTRIC CONDUCTIVITY*
- ELECTRICAL TESTING:**
- cracks**
Measurement of crack depths with the direct current conduction method. (E17). 466575
- Monitoring crack growth by a potential drop method. (E17). 470481
- ELECTROCARDIOGRAMS:**
- cardiovascular diseases**
ECG-changes following postoperative irradiation of patients with mammary carcinoma. (C15). 494312
- data processing**
Digital method of correlation between the electrocardiogram and the isotopic heart study. (E41, C62). 485093
- ELECTROCHEMICAL COATING:**
- chromium**
Electrolysis of chromium for the isotopic production by means of a cyclotron. (B12). 462693
- ELECTROCHEMICAL CORROSION:**
- bacteria**
Possible microbial corrosion of decay tanks for liquid radioactive wastes in nuclear power plants. (B15, E52). 476200
- pressure vessels**
Development and application of electrochemical methods in corrosion measurements in the Czechoslovak nuclear industry. (E34). 484974
- ELECTRODEPOSITION:**
See also *ELECTROPLATING*
- uranium**
Electrolytic precipitation of natural uranium on stainless steel cathode. (B13, B16, D14). [Data] 462767
- ELECTRODES:**
See also *ANODES; CATHODES; GRIDS; HOLLOW CATHODES*
- boundary layers**
Electrode boundary layers in seeded combustion plasmas. (A16). 485953
- corrosion**
Laboratory scale glass melter for testing defense waste glass. (E51, B15). [Data] 474195
- materials testing**
Results of tests and studies of American materials in the channel of the MHD facility U-02 (Phase III). (A16, B23, B15; LaCrO₃). [Data] 471941
- specifications**
Electrode structures for high energy high temperature plasmas. (A14; Patent). 459957
- work functions**
Thermionic emission characteristic of LC20M in vacuum. (A16). 493018
- ELECTRODYNAMICS:**
See also *QUANTUM ELECTRODYNAMICS*
- canonical transformations**
Successive canonical transformation in model two-body electrodynamics. (A11). 488705
- electromagnetic testing**
Testability of nonlinear electrodynamics. (E41, A11). 488242
- lorentz invariance**
Poincare invariance without Poincare group. (A11, A21). 459708
- magnetic monopoles**
Action-at-a-distance theory of electrodynamics with Dirac's monopoles. (A11). 488627

- scalar fields**
The scalar electrodynamics produced with the photon as compound state. (A11). 471270
- string models**
Action-at-a-distance theory of electrodynamics with Dirac's monopoles. (A11). 488627
- unified gauge models**
Linking weak interactions with electrodynamics. (A20). 462530
- ELECTROFISSION:**
(Fission of heavy nuclei by MeV range electrons.)
- cluster model**
Cluster model approach to the fission of ^{28}Si . (A33). 475733
- ELECTROJETS:**
- doppler effect**
Alternative explanation of the Doppler spectra of current-driven plasma instabilities. (B33). [Data] 465836
- plasma instability**
Alternative explanation of the Doppler spectra of current-driven plasma instabilities. (B33). [Data] 465836
- two-stream instability**
High frequency radar observations of horizontal plasma waves in the equatorial ionosphere. (B33). 463012
- ELECTROKINETICS:**
See *ELECTRODYNAMICS*
- ELECTROLYSIS:**
See also *ELECTRODEPOSITION; ELECTROPLATING*
- mass transfer**
Interferometric study of mass transfer enhancement by turbulence promoters. (E11). 487825
- ELECTROLYTES:**
- enthalpy**
Extrapolation procedures for calculating high-temperature gibbs free energies of aqueous electrolytes. (B12). 465411
- thermodynamic properties**
Extrapolation procedures for calculating high-temperature gibbs free energies of aqueous electrolytes. (B12). 465411
- Thermodynamics of electrolytes. 12. Dielectric properties of water and Debye - Hueckel parameters to 350°C and 1 kbar. (B12). [Data] 493569
- ELECTROLYTIC CORROSION:**
See *ELECTROCHEMICAL CORROSION*
- ELECTROMAGNETIC FIELDS:**
- causality**
The quantum electromagnetic field in multiply connected space. (A11). 462093
- einstein-maxwell equations**
Majumdar-Papapetrou class of nonstatic cylindrically symmetric Brans-Dicke-Maxwell fields. (A11). 471302
- field equations**
Light does not tire. (A15). 485911
- gauge invariance**
The quantum electromagnetic field in multiply connected space. (A11). 462093
- gravitational interactions**
On the correspondence between gravitating wave fields of similar tensor dimension. (A11). 474473
- hamiltonians**
Nucleon motion in constant nucleodynamic field (p^2 approximation). (A11). 483059
- induction**
Electromagnetic induction - a method for the investigation of phase equilibria diagrams. (B22, E17). 476261
- j-j coupling**
A new variant of nonlinear electrodynamics. 1. (A11). 474503
- life cycle**
On interactions between electromagnetic ionizing radiation field and unicellular microorganisms. (C12). 463073
- matter**
Studies on the C^* -algebraic formulation of the interaction of the electromagnetic field with the matter. (A11). 471265
- maxwell equations**
Light does not tire. (A15). 485911
- Quantization of the Maxwell field in linear conformal invariant gauges. (A11). 488712
- Relativistic strings and electromagnetic flux tubes. (A11). 483061
- Some properties of duality-rotated Maxwell fields. (A11). 488615
- minkowski space**
Relativistic strings and electromagnetic flux tubes. (A11). 483061
- nonlinear problems**
A new variant of nonlinear electrodynamics (1). (A11). 467113
- proca equations**
Consistency of spin-1 theories in external electromagnetic fields. (A11). 474536
- quantum field theory**
Quantization of the Maxwell field in linear conformal invariant gauges. (A11). 488712
- ricci tensor**
Symmetry mappings in Einstein-Maxwell space-times. (A11). 471267
- rotation**
Some properties of duality-rotated Maxwell fields. (A11). 488615
- shielding**
Electromagnetic shielding formulae. (A14). 478023
- space-time**
On the gravitational analog of electromagnetic induction. (A11). 463879
- spin**
Consistency of spin-1 theories in external electromagnetic fields. (A11). 474536
- torsion**
Spinor and electromagnetic field in the space with torsion. (A11). 467079
- ELECTROMAGNETIC FORM FACTORS:**
- scale invariance**
On automodel behaviour of inclusive form factors with respect to a generalized scale variable. (A11). 485340
- ELECTROMAGNETIC INTERACTIONS:**
See also *COMPTON EFFECT; COULOMB SCATTERING; ELECTROPRODUCTION; PHOTON-HADRON INTERACTIONS; PHOTON-MESON INTERACTIONS; PHOTON-NUCLEON INTERACTIONS; PHOTON-PHOTON INTERACTIONS; PHOTON-PROTON INTERACTIONS; PHOTOPRODUCTION*
- electronic structure**
Theoretical investigation of gamma-ray internal conversion in outer atomic shells. (A12). 492523
- excited states**
Theoretical investigation of gamma-ray internal conversion in outer atomic shells. (A12). 492523
- gauge invariance**
Extension of the validity of the Bernabeu-Jarlskog relations among neutral current couplings. (A21). 462562
- Fundamental length hypothesis in a gauge theory context. (A21). 464813
- Mixing of leptons with different quantum numbers in gauge theories of weak and electromagnetic interactions. (A21). 464868
- Weak interactions at high energies. (A21; Lectures, review). 460172
- heat flux**
Particle emission in the de Sitter universe for massless fields with spin. (A15). 462455
- lagrangian function**
On the problem of nondiagonal leptonic processes. (A21; (μ -e) decay, ν_e (anti ν_e), ν_μ (anti ν_μ) scattering, $\mu^+\mu^-$ annihilation). 493080
- length**
Fundamental length hypothesis in a gauge theory context. (A21). 464813
- polarization**
Weak-electromagnetic interference. (E16, A21). 491659
- proca equations**
Consistency of spin-1 theories in external electromagnetic fields. (A11). 474536
- scalar fields**
Mass without scalars. (A21, A11). 489767
- spin**
Consistency of spin-1 theories in external electromagnetic fields. (A11). 474536
- unified gauge models**
Fundamental length hypothesis in a gauge theory context. (A21). 483650
- Gauge unification of basic forces, particularly of gravitation with strong interactions. (A21, A11; Spin-1 and -2 quanta, Einstein-Weyl structures, tetrahedral interrelation). 472046
- Matter instability in the SU(5) unified model of strong, weak and electromagnetic interactions. (A21). 468086
- Multi-dimensional unified theory. (A21). 493076
- Supersymmetry and gauge theories of weak and electromagnetic interactions. (A21). 493068
- Unified model of weak and electromagnetic interactions based on the gauge group SU(3) \times U(1). (A21). 460174
- Weak neutral-current interactions. (A21). 460160
- ELECTROMAGNETIC ISOTOPE SEPARA:**
(The process)
Method of and apparatus for the separation of isotopes. (D13). 461448
- cyclotron resonance**
Isotopic separation process and setting up. (D11, D13). 473544
- targets**
High-temperature carbide targets for fast on-line mass separation of alkali and noble gas elements. (E16). 461544
- uranium isotopes**
Apparatus and process for separating materials. (D11; Patent). 461437
- ELECTROMAGNETIC LENSES:**
- beam transport**
Symmetric system of four identical quadrupole lenses. (E16). 477007
- focusing**
New form of coefficients for linear transformation of the charged particle beam in the magnet quadrupole element. (E16). 477074
- magnetic fields**
Calculation of the quadrupole-lens fringing field. (E16). 480427
- multipoles**
Determination of effective lengths of multipoles with axial-symmetrical magnetic circuit. (E16). 494763
- nonlinear problems**
Optimization of long matched sections of a synchrotron and analysis of nonlinear aberrations in them by a continuous analogue of the Newton method. (E16). 470429
- optimization**
Optimization of long matched sections of a synchrotron and analysis of nonlinear aberrations in them by a continuous analogue of the Newton method. (E16). 470429
- quadrupoles**
New form of coefficients for linear transformation of the charged particle beam in the magnet quadrupole element. (E16). 477074
- ELECTROMAGNETIC PARTICLE DECAY:**
- baryons**
Baryon multipole moments in the single quark transition model. (A21). [Data] 481363

- particle widths
Higher order effects on radiative decays of mesons. (A21). [Data] 475638
Measurement of leptonic branching ratios of the UPSILON(9.46). (A22). [Data] 475653
- quark model
Quark loop model of radiative meson decays. (A21). [Data] 481361
- ELECTROMAGNETIC PULSES:**
EMP: Electro-magnetic-pulse. (A14). 467506
- biological effects
Tests of biological integrity in dogs exposed to an electromagnetic pulse environment. (C14). 472942
- collisional plasma
Harmonic generation by an intense gaussian electromagnetic beam in a plasma medium. (A14). 492838
- electromagnetic fields
Recent EMP field calculations. (A14). 467716
- harmonics
Harmonic generation by an intense gaussian electromagnetic beam in a plasma medium. (A14). 492838
- hazards
Review of EMP investigations. (A14). 467507
- physical radiation effects
EMP simulation for equipment testing. (A14, B25). 467580
Measures to protect communication systems from EMP effects. (A14, B25). 467687
Screen damping measurements in a large, EMP-shielded remote monitoring station. (A14). 467673
- ELECTROMAGNETIC PUMPS:**
liquid metals
Electromagnetic pump and process of fabricating its magnetic circuit. (E13). 470340
- performance
Analysis of annular linear induction pump. (E22). 477135
- ELECTROMAGNETIC RADIATION:**
See also more specific entries as listed in the INIS Thesaurus.
absorption
Wall effects on the absorption of electron cyclotron waves in an EBT plasma. (A14). 467706
- alfven waves
Non-linear self precession and wave-number shift of electromagnetic waves under resonance and Alfvén waves in plasmas. (A14). 492728
- beam optics
Cross-focusing of two co-axial Gaussian electromagnetic beams in a magnetoplasma and plasma wave generation. (A14). [Data] 471725
- bernstein mode
Radiation phenomena of plasma waves, 2. (A14). 467647
- boundary conditions
Remark on Trautman's Radiation Condition. (A11). 483122
- continuity equations
Derivation of the square inverse law of the distances for electromagnetic radiation (X-rays and photons) and corpuscular radiation. (A32). 472123
- dielectric materials
Radiation appearing due to a charged particle flying near dielectric body. (B32, A11). 469535
- diffraction
Scattering and diffraction of electromagnetic waves by a conducting sphere with an inhomogeneous plasma sheath. (A14). 492795
- euclidean space
On the possibility of a three-temporal Lorentz transformation. (A11). 471307
- fermat principle
Plane of polarization rotation induced by a non-Minkowskian spacetime. (A11, A15). 459669
- fluctuations
Measurements of shift velocities of ionospheric irregularities. (A15). 471867
- focusing
Cross-focusing of two co-axial Gaussian electromagnetic beams in a magnetoplasma and plasma wave generation. (A14). [Data] 471725
- A geometrical construction for self-focusing of rays in homogeneous nonlinear media. (A32). 468240
- gravitational fields
Electromagnetic wave in a gravitational field and red shift of spectral lines. (A11). 463902
- interaction range
Derivation of the square inverse law of the distances for electromagnetic radiation (X-rays and photons) and corpuscular radiation. (A32). 472123
- interactions
Interaction of plane electromagnetic-gravitational waves. (A11). 463917
- particle kinematics
Motion of relativistic particles in standing wave fields. (A11). 477582
- plasma
Measurement of return current in a laser-produced plasma. (A14). 477992
Polarized radiation transfer in rarefield magnetoactive plasma. (A14, A15). 489338
- polarization
The equation of polarization transfer in an inhomogeneous magnetized plasma. III. (A14, B33, A15). 489132
- radiation sources
Radiation phenomena of plasma waves, 3. (A14). 467649
- scattering
Scattering and diffraction of electromagnetic waves by a conducting sphere with an inhomogeneous plasma sheath. (A14). 492795
- velocity
Measurements of shift velocities of ionospheric irregularities. (A15). 471867
- On the possibility of a three-temporal Lorentz transformation. (A11). 471307
- wave propagation
Electromagnetic wave generation and propagation in gravitational fields. (A11, A21, A15; Differential cross sections, polarization, helicity and angular momentum coupling). 467031
Radiation phenomena of plasma waves, 1. (A14). 467648
- ELECTROMAGNETIC TESTING:**
See also EDDY CURRENT TESTING
- ELECTROMAGNETIC TRANSITIONS:**
See ENERGY-LEVEL TRANSITIONS
- ELECTROMAGNETIC WAVES:**
See ELECTROMAGNETIC RADIATION
- ELECTROMAGNETISM:**
supersymmetry
Local supersymmetry and interactions. (A21, A11). 475517
- ELECTROMAGNETOSTRICTION:**
See MAGNETOSTRICTION
- ELECTROMAGNETS:**
See also SUPERCONDUCTING MAGNETS
fabrication
Design of a high current power supply using SCRs for electromagnets used in MHD plants. (A16). 485961
- inhomogeneous fields
Measurements and analyses of the inhomogeneities of magnetic fields along a central ray in a sectorial electromagnet. (E16). 470402
- magnetic fields
Device to measure quadrupole gradient-length product. (E16, E42). 487927
A fast precise magnetic field control. (E41). 474066
- performance
Measurements and analyses of the inhomogeneities of magnetic fields along a central ray in a sectorial electromagnet. (E16). 470402
- specifications
Design of a high current power supply using SCRs for electromagnets used in MHD plants. (A16). 485961
- ELECTROMETERS:**
dc amplifiers
Ionization current measurement. (E41). 477368
- transients
Fast-response logarithmic electrometer for pulse-reactor experiments. (E36, E42). 488187
- ELECTROMIGRATION:**
See ELECTROPHORESIS
- ELECTROMOTIVE FORCE:**
gaseous diffusion
Effect of hydrogen on the thermo emf of tantalum, zirconium and titanium. (B22). 479430
- ELECTRON ANTINEUTRINOS:**
energy spectra
Fission antineutrino-induced reactions. (A34). [Data] 468477
- ELECTRON ATTACHMENT:**
(A(neutral) + e yields A(1 minus).)
angular distribution
Angular distribution of negative ions formed in dissociative attachment. (A12). 488847
- molecules
Attachment of low-energy electrons to oxygen molecules in argon-N₂-O₂ mixtures. (A12). 467280
- ELECTRON BEAM INJECTION:**
magnetic fields
Specific features of high-current beam capture on a closed orbit. (E16). 494868
- potential energy
Numerical study on formation of the potential structure of the relativistic electron beam front. (E16). 494751
- pulse techniques
Experimental test accelerator (ETA). (E16). 476998
- ELECTRON BEAM ION SOURCES:**
(Ion source creating high charge states by sequential electron impact ionization.)
electromagnets
Electron beam collection in the source EBIS. (E16). 482598
- magnetic fields
Characteristics of magnetic-effect coaxial electron bombarding ion source. (D14). 476844
- shields
Electron beam collection in the source EBIS. (E16). 482598
- static mass spectrometers
Ion sources of high luminosity for mass spectrometers. (E16, E41). 480517
- ELECTRON BEAM MELTING:**
2. International colloquium on electron beam welding and melting. (E13). 482570
- niobium
The role of electron beam melting in the preparation of refractory metals and their alloys. (B22). [Data] 481833
- tantalum
The role of electron beam melting in the preparation of refractory metals and their alloys. (B22). [Data] 481833
- ELECTRON BEAM WELDING:**
2. International colloquium on electron beam welding and melting. (E13). 482570

- automation**
Computer automation of an electron-beam welder. (B21). 479341
- cracks**
Fundamental studies on electron beam welding on heat-resistant superalloys for nuclear plants. (3). (B21). 481771
- data acquisition systems**
Data acquisition system for the Hamilton Standard W2 Electron Beam Welder. (E13). 491533
- fuel plates**
Electron beam welding in the fabrication of plate-type fuel elements. (B22). [Data] 490621
- heat exchangers**
EB welding with local vacuum applied to heat exchangers. (E13). 482565
- inconel 617**
Analysis of temperature and stress distribution during electron beam welding. (B21). [Data] 481778
- mathematical models**
Temperature distribution in a workpiece during EB welding. (E13). [Data] 482560
- nuclear engineering**
Applying electron beam welding in nuclear engineering. (B21). 462845
- nuclear industry**
Some electron beam welding equipments for the nuclear industry. (B22). 460717
- performance**
Welding with high power electron beams. (E13). 482566
- spheres**
Finite element simulation of the welding stresses in a thick hollow sphere. (E13). [Data] 484843
- stainless steel-304L**
An investigation of electron beam welding of SUS304L stainless sintered steel. (B22). [Data] 481846
- stainless steels**
Some electron beam welding equipments for the nuclear industry. (B22). 460717
- steels**
Electron beam welding of heavy sections - results of recently developed techniques. (B22). 460718
Investigations into electron beam welding of heavy sections. (B22). 481805
Modifying solidification phenomena in EB-welds. (B22). [Data] 481822
New weldability concept for EB-welds and others. (B22). [Data] 481789
Some investigation of weldability of high-strength EB welded steels. (B22). [Data] 490603
- turbine blades**
Electron beam welding of blade packs for powerful steam turbines. (B22). 481826
- ultrasonic testing**
Testing of electron beam welding by ultrasonic transducers. (E17). 482655
- uranium base alloys**
Structures and properties of welded areas in U-alloys. (B22). 481829
- welding machines**
Computer automation of an electron-beam welder. (B21). 479341
- ELECTRON BEAMS:**
- acceleration**
Calculation and experimental study on self-acceleration of high-current electron beam while chopping in an accelerating structure with saturated ferrite. (E16). 494882
- annealing**
Electron-beam annealing of ion-implanted silicon. (B25). 469439
- beam analyzers**
Low-cost digital system for control of a retarding potential energy analyzer. (A12, E42). 485459
- beam bunchers**
Study of preaccelerator-prebunching technique for PHERMEX. (E16). 491646
- beam bunching**
Dynamics of charged particle intense bunches in a bending magnetic field. (E16). 494842
Relativistic beam self-contraction in the inhomogeneous magnetic field with a neck. (E16). 491603
- beam currents**
Simulation of space-charge limiting current in relativistic electron beams. (A14). 464487
- beam dynamics**
Energy recovery and power stabilization of pulsed electron beams in Marx generator circuits. (E16). 476942
Performance characteristics of large area electron accelerators. (E16, A12). 477038
Self-focusing of a pulsed high-intensity electron beam in a low-pressure gas. (E16). 480425
Synchrotron radiation loss in a kissing ep geometry. (E16). 473678
- beam injection**
Limiting currents for injection of an unneutralized magnetized relativistic electron beam into a cylindrical drift tube. (E16). 477078
- beam monitors**
Electron beam spectrum monitor using synchrotron light. (E16). 477056
- beam optics**
High beam penetrations on metal targets using moderate power electron beam. (E16). 494877
- beam production**
Experiments with generation of relativistic electron beams. (A12). 492542
- Microsecond intensive e-beams. (E16). 476941
On a method for high-energy electron beam production in proton synchrotrons. (E16). 487881
Polarized electron beams. (E16, A12). 491567
Simulations of intense relativistic electron beam generation by foillish diodes. (E16). 491619
- beam profiles**
Beam-scanning system for determination of beam profiles and form factors in merged-beam experiments. (A12). 481033
- beam scanners**
Double deflection system for an electron beam device. (E16; Patent). 477048
- beam transport**
Electron and ion beam transport to fusion targets. (A14). 492754
Magnetic self-insulation of electron beams in vacuum lines. (A14). 492725
REB focusing and transport investigations. (E16). 477009
REB propagation and combination in plasma channels. (A14). 475090
Study of high-current electron beam transport along wires. (E16). 477058
Transport and focussing on intense electron and ion beams using external magnetic fields and plasma channels. (A14). 475027
Transport of self-focused relativistic electron beams. (A14). 474966
- biological radiation effects**
Reduction of radiation damage in an electron microscope with a superconducting lens system. (C11). 490912
- bremsstrahlung**
Absorbed energy distribution and bremsstrahlung yield while electron exposing copper and tantalum on the RIUS-5 accelerator. (A32). 486182
Study of high-current relativistic electron beam parameters using bremsstrahlung yield. (E16). 466538
Study on intense relativistic electron beam x-radiation on the base of development of pulse dosimetry technique. (E16, E41). 491585
- cavity resonators**
Numerical solution of a model self-consistent electrodynamic problem. (E16). 487878
- cern isr**
Europe goes clean into the particle future. (E16). 463553
- charged-particle transport**
An experiment to study plasma heating by intense relativistic electron beam. (A14). 492805
Propagation of relativistic electron beams in low pressure gases. (A14). 492777
- charged-particle transport the**
Transmission of fast electrons through a matter in magnetic fields. (A32). 493142
- chemical radiation effects**
Radiation treatment of exhaust gases. (B14, D23). [Data] 468981
- coherent scattering**
Millimeter wave generation through stimulated scattering with an intense relativistic electron beam and a controlled zero-frequency pump. (E13, E16). 476917
Zero frequency pumped stimulated Raman scattering by an intense relativistic electron beam. (E13, E16). 476922
- collimators**
Wall-scattering effects in electron beam collimation. (D14, C63). 461456
- contamination**
Photon contamination in 8-20-MeV electron beams from a linear accelerator. (D15, E13). 487796
- control**
Control of tubular electron beam current by means of a screening beam in a diode with magnetic insulation. (E16). 470400
- coulomb scattering**
Electron scattering from a center of force in strong magnetic fields. (A14). 467655
- current density**
High-current-density relativistic electron beams in conical diodes. (A12). 477747
Performance characteristics of large area electron accelerators. (E16, A12). 477038
- cyclic accelerators**
Method for determination of the radiation energy coming out of the accelerator tube of an electron accelerator and a set-up for performing it. (E16). 482624
- cyclotron instability**
m = 1 cyclotron-mode klystron instability. (E16, A14). 491668
- data acquisition systems**
Interactive NOS group area for specialized electron beam accelerator diagnostics. (E16). 477010
- depth dose distributions**
An analytical method to calculate electron dose distributions. Pt. 1. (D15, C63). 470247
- desorption**
An appraisal of glow discharge treatment of copper surfaces by the techniques of electron stimulated desorption. (A12). [Data] 495972
- drift tubes**
Time structure of high-current electron beam. (E16). 476976
- electrodes**
Research on electron-beam inertial-confinement thermonuclear fusion. (A14). 483298
- electrodynamics**
Electrodynamics of rotating relativistic electron beams. (E16). 494850
- electron plasma waves**
Observation of equilibrium surface ripples of high intensity relativistic electron beams. (A14). 462351

- energy losses**
 Absorbed energy distribution and bremsstrahlung yield while electron exposing copper and tantalum on the RIUS-5 accelerator. (A32). 486182
 Ohmic dissipation during vacuum transport. (E16). 494807
- energy spectra**
 Characterization of Clinac-18 electron-beam energy using a magnetic analysis method. (C53). 469986
 Method for determination of the radiation energy coming out of the accelerator tube of an electron accelerator and a set-up for performing it. (E16). 482624
- energy transfer**
 Enhanced deposition of intense electron beam energy into low Z targets. (A14). 475053
 Processes leading to enhanced energy deposition by particle beams. (A14). 475018
- field emission**
 Microwave emission from pulsed, relativistic e-beam diodes. I. The smooth-bore magnetron. (E13). 476918
 Microwave emission from pulsed, relativistic e-beam diodes. II. The multiresonator magnetron. (E13). 476919
- focusing**
 Developments in Sandia Laboratories particle beam fusion programme. (A14). 483416
 Focusing intense relativistic electron beams when passing through a low pressure gas. (E16). 466555
 On the energy release in the focus of high-current relativistic electron beam while selffocusing. (E16, A14). 491586
 Transport and focussing on intense electron and ion beams using external magnetic fields and plasma channels. (A14). 475027
- form factors**
 Beam-scanning system for determination of beam profiles and form factors in merged-beam experiments. (A12). 481033
- fresnel lens**
 Preparation of Fresnel lens film by mold polymerization using electron beam irradiation. (D23, B14). [Data] 473603
- heating**
 Filament preheating for phi targets. (A14). 467653
- hydrodynamics**
 Electron beam driven implosions. (A14). 474941
- implosions**
 Charged particle fusion targets. (A14). 474942
- inelastic scattering**
 A high pressure gas target system for the determination of absolute electron scattering cross sections. (E16). 461558
- inertial confinement**
 Assembly and handling apparatus for the EBFA Marx generator. (A14). 492832
 EBFA: pulsed power for fusion. (A14). 492791
 Research on electron-beam inertial-confinement thermonuclear fusion. (A14). 483298
- instability**
 Vacuum propagation of solid relativistic electron beams. (A12). 464101
- isodose curves**
 Air-gap correction in electron treatment planning. (C55, C63). 473311
- betatron electron beam characterisation for dosimetry calculations.** (C55). [Data] 473320
- kilo amp beam currents**
 On the energy release in the focus of high-current relativistic electron beam while selffocusing. (E16, A14). 491586
- magnetic fields**
 Investigation of the free electron laser with a guide magnetic field. (A14). 478102
 On diaphragmating of a relativistic beam injected in a strong magnetic field. (E16). 491661
- magnetic insulation**
 Beam stability and current loss in magnetic insulation. (A11). 488553
 Planar one-dimensional magnetically insulated electron flow for arbitrary canonical-momentum distribution. (A11). 488676
- masers**
 Microwave generation and frequency conversion using intense relativistic electron beams. (E13, E16). 476913
- mega amp beam currents**
 Power electron beams and its usage. (E16, A14; 462 refs.; 79 figs.; 10 tables). 470381
- mev range**
 Calculation of the dose for fast electrons using a matrix algorithm. (C61, D15). 470044
- microwave radiation**
 Effect of coherent synchrotron oscillations on the microwave spectrum of electron radiation in the storage ring. (E16). 477027
 Microwave generation and frequency conversion using intense relativistic electron beams. (E13, E16). 476913
 Millimeter wave generation through stimulated scattering with an intense relativistic electron beam and a controlled zero-frequency pump. (E13, E16). 476917
 Reflection of electromagnetic radiation from the front of a magnetically-confined, relativistic electron beam. (A12). 459761
- ondulator radiation**
 Determination of electron angular distribution dispersion by ondulator radiation. (E16). 482623
- pinch effect**
 Electron and ion physics in relativistic large aspect ratio. (A14). 475035
- plasma simulation**
 Simulation of space-charge limiting current in relativistic electron beams. (A14). 464487
- polarized beams**
 Acceleration of polarized electrons in the 2.5 GeV synchrotron at Bonn. (E16). 491576
 Polarized e⁻ beams in LEP. (E16, A22). 491645
 Possibilities to obtain high energy polarized particles in accelerators and storage rings. (E16). 491587
 Radiative polarization at ultra-high energies. (E16, A22). 484861
- polymerization**
 Preparation of Fresnel lens film by mold polymerization using electron beam irradiation. (D23, B14). [Data] 473603
- power supplies**
 Assembly and handling apparatus for the EBFA Marx generator. (A14). 492832
- proton beams**
 On a method for high-energy electron beam production in proton synchrotrons. (E16). 487881
- pulse techniques**
 Energy recovery and power stabilization of pulsed electron beams in Marx generator circuits. (E16). 476942
- pulsed irradiation**
 The absolute rate constants of reaction of hydrogen atoms with several olefins. (B14). 465461
- pulses**
 Microwave emission from pulsed, relativistic e-beam diodes. II. The multiresonator magnetron. (E13). 476919
- radiation doses**
 An analytical method for calculation of electron dose distributions. Pt. 2. (C63). 473509
- radiation effects**
 Dynamic polarization in radiation resistant materials. (B12). 468734
- radiolysis**
 The absolute rate constants of reaction of hydrogen atoms with several olefins. (B14). 465461
- radiotherapy**
 Small electron beams in radiation therapy. (D15, C63, C15; Phantom dosimetry studies). [Data] 473577
 Wall-scattering effects in electron beam collimation. (D14, C63). 461456
- whole body electron therapy in mycosis fungoides - a successful translational technique achieved by modification of an established linear accelerator.** (C63, D14). [Data] 473525
- raman effect**
 Cyclotron harmonic damping in stimulated Raman scattering from an intense relativistic electron beam. (A14). 478049
- raman spectra**
 Spectral properties of stimulated Raman radiation from an intense relativistic electron beam. (A14). 475020
- relativistic plasma**
 Electron and ion physics in relativistic large aspect ratio. (A14). 475035
- relativistic range**
 Doppler frequency conversion of microwaves by reflexion from a relativistic beam front in a gas filled wave guide. (A14). 464334
 Effect of beam scattering on plasma heating with relativistic electron beams. (A14). 481666
 Equilibria and stability of centrifugal relativistic electron beams. (A12, A14). 488764
 Microwave emission from pulsed, relativistic e-beam diodes. I. The smooth-bore magnetron. (E13). 476918
- sacalay linac**
 (e,e'p) reactions at Saclay. Experimental aspects. (A34). 481583
- solar cells**
 Analysis of the interaction of an electron beam with a solar cell. (A13). 462252
 Analysis of the interaction of an electron beam with a solar cell. (A13). 462253
- stability**
 REB propagation and combination in plasma channels. (A14). 475090
- surface coating**
 Commercial uses of electron curing and their energy impact. (D23). 470278
- targets**
 Charged particle fusion targets. (A14). 474942
 Deflagration waves supported by thermal radiation. (A14). 475108
 Developments in Sandia Laboratories particle beam fusion programme. (A14). 483416
 Electron beam driven implosions. (A14). 474941
 Electron deposition in thin targets. (A14). 475152
 Enhanced deposition of intense electron beam energy into low Z targets. (A14). 475053
 Filament preheating for phi targets. (A14). 467653
 High beam penetrations on metal targets using moderate power electron beam. (E16). 494877
 A high pressure gas target system for the determination of absolute electron scattering cross sections. (E16). 461558
 Neutron production from advanced REB fusion targets. (A14). 474972
 Power plant production of inertial confinement fusion targets. (B12). 475961
 Processes leading to enhanced energy deposition by particle beams. (A14). 475018
- thermal equilibrium**
 Thermal equilibrium properties of an intense relativistic electron beam. (A12). 485428
- thermionic diodes**
 Time structure of high-current electron beam. (E16). 476976
- transmission**
 Study on spectral and angular characteristics of collimated electron beams. (A32). 493133

- uses**
Electron and ion beam science and technology. (E13, E16). 480376
- wave packets**
The determination of a wave packet. (A11). 488660
- waveguides**
Longitudinal-wave instability of a limited electron beam moving in a corrugated magnetic field. (E16). 494870
On the compensation of energy inhomogeneity of a nanosecond relativistic beam in a diaphragmatic waveguide. (E16). 491568
- ELECTRON CAPTURE:**
(By projectiles in collisions; not for ELECTRON CAPTURE DECAY.)
- ion-atom collisions**
Electron capture in collisions of ions and rare gas atoms in the 200-4000 eV energy range. (A12; Total cross sections of electron capture in the (He⁺, Ne), (He⁺, Ar), (He⁺, Kr), (He⁺, Xe), (Ne⁺, Ar), (Ne⁺, Kr), (Ne⁺, Xe), (Ar⁺, Kr), (Ar⁺, Xe), (Kr⁺, Xe) ion-atom collisions). 488844
- radiations**
Influence of retardation on the angular distribution of radiative electron capture. (A12). 477823
- scaling laws**
On a scaling of electron capture by fully ionized heavy ions in light gas targets at low MeV energies. (A12). 483223
- ELECTRON CAPTURE DECAY:**
Ratio of electron capture to positron emission in heavy nuclei. (A33; nuclear structure effects, form factors). 486259
- corrections**
Variations of exchange and overlap corrections to ⁷Be electron capture radioactive decay probabilities in excited atoms and ions. (A33, A12). 490049
- internal bremsstrahlung**
Double internal bremsstrahlung in the electron-capture decay of ⁵⁵Fe. (A34). 483896
- nuclear screening**
Screening effects in radiative orbital electron capture by an atomic nucleus. (A33). 486239
- probability**
Atomic electron excitation probabilities during orbital electron capture by the nucleus. (A33). 475713
- radiative corrections**
Electromagnetic corrections to epsilon/beta ratios. (A33). 490070
- ELECTRON CAPTURE RADIOISOTOPES:**
See also more specific entries as listed in the INIS Thesaurus.
- ELECTRON CHANNELING:**
Experimental study on capture conditions of 0.8-2.5 MeV electrons into channeling mode. (A13). 492681
To the theory of electron channeling. (A13). 474831
- bremsstrahlung**
On the emission of electrons channeling in a crystal. (A13). 467481
- diamonds**
Observation of intensive gamma radiation of 900 MeV electrons on channeling in a diamond. (A13). 477951
- electromagnetic radiation**
Electromagnetic radiation of channeling particles in a crystal. (A13). 485573
- gamma radiation**
Radiation of 4.7 GeV channeling electrons in diamond. (A13). 485562
- gamma spectra**
Radiation of channeled 800 MeV electrons in diamond crystals. (A13). 474799
- photon emission**
On the possibility of resonance radiation on relativistic particle channeling. (A13). 464235
- stimulated emission**
Effect of spontaneous and stimulated radiation of relativistic particles in a crystal and possibilities of its application in physics. (A13). 485613
- ELECTRON COLLISIONS:**
See also ELECTRON-ATOM COLLISIONS; ELECTRON-ION COLLISIONS; ELECTRON-MOLECULE COLLISIONS; ELECTRON-POSITRON COLLISIONS
- bremsstrahlung**
Bremsstrahlung isochromat from nickel: Effects of incident-electron energy and final-state symmetry. (A12). 481016
- elastic scattering**
Total cross section of the SF₆ molecule for elastic electron scattering. (A12; 10 to 60 eV, multiple scattering, phase shifts). 463944
- excitation**
Electron scattering from vibrationally excited nitrogen. (A12; Ionization cross section, threshold energy, direct and autoionization processes). 467260
Excitation of atomic hydrogen to the 2²S/sub 1/2/ state by electron impact. (A12; Differential cross sections at 0 to 180°, 10.20 to 12.50 eV). [Data] 477833
- inelastic scattering**
Excitation of atomic hydrogen to the 2²S/sub 1/2/ state by electron impact. (A12; Differential cross sections at 0 to 180°, 10.20 to 12.50 eV). [Data] 477833
Inelastic electron scattering investigation of the complete 4d shell. (A12; 300 keV). 463986
- ionization**
Ionization of uranium atoms by electron impact. (A12; Total cross sections, 7.5 to 500 eV). 467209
Theory of (e,2e) experiments. (A12). 488872
- ionosphere**
Collision frequency and transport properties of electrons in the ionosphere. (B33). 479675
- phase shift**
Phase shifts for electron scattering from a two-centre potential. (A21). 462541
- point charge**
Phase shifts for electron scattering from a two-centre potential. (A21). 462541
- relativistic range**
Strong wave amplification by electron scattering in a spatially periodic magnetic field. (A11). 488595
- scattering**
complex-coordinate studies of helium autoionizing resonances. (A12). 464047
Impurity scattering on the Fermi surfaces: A (more) realistic calculation. (A13, B22). 485583
Strong wave amplification by electron scattering in a spatially periodic magnetic field. (A11). 488595
- secondary emission**
Absolute doubly differential cross sections for ejection of secondary electrons from helium by electron impact. (A12). 471376
- ELECTRON CONFIGURATION (ATOMS):**
See ELECTRONIC STRUCTURE
- ELECTRON COOLING:**
(Reduction of particle beam oscillations by collisions with a low energy electron beam.)
Electron cooling. (E16). 494747
- beam optics**
Nonlinear electron-proton interactions during electron cooling. (E16). 494845
- efficiency**
Novosibirsk: more studies on electron cooling. (E16). 480416
- equations**
Overview of beam cooling. (E16). 480508
Relativistic electron cooling for high luminosity proton-anti proton colliding beams at very high energies. (E16). 480499
- ELECTRON CORRELATION:**
(In atomic models.)
- de haas-van alphen effect**
DHVA oscillations in the correlation energy of a two-dimensional quantum plasma. (A13). 485599
- molecular orbital method**
Quaternionic molecular orbital approach to electron correlation. (A12). 483216
- pairing interactions**
Pair theory and reduced Green's functions. (A12, A11). 483197
- symmetry groups**
The utilization of abelian point group symmetry in the graphical unitary group approach to the calculation of correlated electronic wavefunctions. (A12). 488899
- ELECTRON CYCLOTRON-RESONANCE H:**
See ECR HEATING
- ELECTRON DENSITY:**
- afterglow**
Microwave measurements of an electron-ion recombination coefficient in neon-helium mixtures. (A12). [Data] 492541
- distribution**
Experimental investigation of electron density distribution in trinitrato-tetrakis-carbamide-scandium (3) from X-ray diffraction data. (B12). 468787
- distribution functions**
The momentum distribution of the positron in an electron gas. (A13). 474692
- instability**
Electron density irregularities in the D region generated through neutral turbulence. (B33). 460937
Rocket borne studies of the irregularities in the equatorial E-region generated through cross-field instability mechanism. (B33). 460936
- interferometers**
A single channel 8mm-wave interferometer for electron density measurements in REB-plasma interaction experiments. (A14, E42). 492818
A study of two microwave interferometers for the determination of the plasma electron density. (A14). 462389
- on-line measurement systems**
Small scale structure of magnetospheric electron density through on-line tracking of plasma resonances. (B33). 460919
- probability**
Calculation of the scattering spectra from weakly ionized plasmas using two-dimensional probability densities. (A14). 489225
- relativistic range**
Modulational instabilities due to relativistic electron mass variations. (A14). 489363
- two-dimensional calculations**
Calculation of the scattering spectra from weakly ionized plasmas using two-dimensional probability densities. (A14). 489225
- weakly ionized gases**
Study of the spatial variation of macroscopic quantities in a weakly ionized gas. (A12). [Data] 488880
- ELECTRON DETECTION:**
- cherenkov counters**
Lead-glass wall addition to the SPEAR Mark 1 magnetic detector. (E41, E16; DOE). 466781
- energy resolution**
Electron energy and position measurement using lead-scintillator calorimeters with a new light collection system. (E41). 492107
- secondary emission detectors**
Detection of minimum ionizing particles through secondary electron emission. (E41). 474021
Particle detection by secondary electron emission from low-density KCl. (E41, E16; 100 to 1000 MeV). 466772

- shower counters
Data handling for the lepton detector. (E41, E16). 474053
Energy calibration from 20 to 40 GeV of a liquid argon detector for electromagnetic showers. (E41). 466767
- spatial resolution**
Electron energy and position measurement using lead-scintillator calorimeters with a new light collection system. (E41). 492107
- wire spark chambers**
Lead-glass wall addition to the SPEAR Mark I magnetic detector. (E41, E16; DOE). 466781
- ELECTRON DIFFRACTION:**
- beam currents**
A new method for measuring low-energy electron-diffraction beam intensities. (E41). 477403
- classical mechanics**
A semiclassical analysis of high energy electron diffraction by stacking faults: arrival at the classical limit. (A13). 471557
- mathematical models**
Separation of the Schrodinger equation in the dynamical theory of electron diffraction, in the case of systematic reflections. (A13). 471535
- spin orientation**
Effects of adsorbates on electron spin polarization in low energy electron diffraction from tungsten (001). I. (B22). 479441
Effects of adsorbates on electron spin polarization in low energy electron diffraction from tungsten (001). II. (B22). 479442
- structural chemical analysis**
Molecular structure and conformation of ethyl methyl ether as studied by gas electron diffraction. (B12). 465375
- ELECTRON DOSIMETRY:**
Electrons as the cause of the observed d/sub max/ shift with field size in high energy photon beams. (D15). 491404
Practical methods for processing level radiation dosimetry. (E41). 477360
- accelerators**
The dosimetry of low-energy electron processing systems. (D23). 480331
- lithium fluorides**
The application of cavity theory to the dosimetry of electron fields. (C55). [Data] 463426
- radiotherapy**
Exposure-to-dose conversion factors. (C55). [Data] 482278
- spatial dose distributions**
Dose distribution near an interface due to anisotropic electron emission. (D15). [Data] 476849
Variation in output factor caused by secondary blocking for 7-16 MeV electron beams. (D15). 480297
- ELECTRON DRIFT:**
- diamagnetism**
Magnetic gradient effects on the universal drift instability. (A14). 464513
- thermal conductivity**
Transport of electron thermal energy in high temperature plasmas. (A14). 485682
- ELECTRON EMISSION:**
See also PHOTOELECTRIC EMISSION
- differential cross sections**
Measurements of differential and integral cross sections for Auger-electron emission in rare gas atoms. (A12). 467319
- electron spectra**
Energy spectra of electrons on excitation of GaAs and InP by Ar ions. (A13). 467422
- integral cross sections**
Measurements of differential and integral cross sections for Auger-electron emission in rare gas atoms. (A12). 467319
- secondary emission**
The energy dependence of secondary emission based on the range-energy retardation power formula. (A13). [Data] 471515
Some correlational regularities in secondary processes at the interaction of intermediate energy ions with monocrystalline surface. (A13). 474823
- secondary emission detectors**
Controllable secondary electron emission and its utilizing for particles detection. (A13). 467428
- ELECTRON GAS:**
- collisions**
A non-linear dynamical response of an electron gas. (A13). 488956
- cyclotron resonance**
Cyclotron resonance in a two-dimensional electron gas on helium surfaces. (A17, A13). 483603
- electron-positron interactions**
Electron liquid in collection description III. (A13). 474694
- electron-proton interactions**
Electron liquid in collective description IV. (A13). 474693
- nonlinear problems**
A non-linear dynamical response of an electron gas. (A13). 488956
- optical properties**
Optical properties of an electron gas in the generalized Hartree-Fock approximation. (A13). [Data] 481068
- permittivity**
Optical properties of an electron gas in the generalized Hartree-Fock approximation. (A13). [Data] 481068
- plasmons**
Determination of effective interaction between two plasmons. (A13). 477912
- positrons**
The momentum distribution of the positron in an electron gas. (A13). 474692
The momentum distribution of the positron in an electron gas. (A12). [Data] 459710
- two-dimensional calculations**
Two-dimensional physics. (A17). 475479
- ELECTRON GUNS:**
- beam dynamics**
Computational studies of beam dynamics in the ETA gun. (E16). 480492
- beam emittance**
Emittance measurements on field emitter diodes. (E16). 480474
- breakdown**
About performance of a high-current microsecond electron gun. (E16). 494827
- field emission**
Emittance measurements on field emitter diodes. (E16). 480474
Energy dispersive x-ray analysis using a field emission gun: a precaution. (E42, A10). 470994
- glow discharges**
Electrode surface effects in the high voltage glow discharge. (A12). 459739
- performance**
Energy dispersive x-ray analysis using a field emission gun: a precaution. (E42, A10). 470994
One nanosecond pulsed electron gun systems. (E16). 480471
- pulse techniques**
One nanosecond pulsed electron gun systems. (E16). 480471
- specifications**
Large-area cold-cathode grid-controlled electron gun for Antares. (A14). 489326
Secondary emission ion analyzer provided with an electron gun for insulating material analysis. (E42). 474137
- work functions**
A miniaturised electron gun for measurements of work function variations by the method of retarding potential in an axial magnetic field. (A12). 488848
- ELECTRON HOLES:**
See HOLES
- ELECTRON LOSS:**
- cross sections**
One electron loss cross sections of fast He⁺ ions. (A12). 467155
- ELECTRON MICROPROBE ANALYSIS:**
Electron microprobe analysis of tantalum-nitride thin films. (E42). 488306
- data processing**
User oriented software system for electron microprobes. (E42). 488290
- x radiation**
An empirical calculation of the depth distribution of primary x-ray production. (A12). 485478
- ELECTRON MICROSCOPES:**
A study of diffusion in binary aluminium base alloys by means of the scanning electron microscope. (B22). 493983
Support facilities. (F30). 471143
- alignment**
Coma-free alignment of high resolution electron microscopes with the aid of optical diffractograms. (E42). 477453
- biological radiation effects**
Reduction of radiation damage in an electron microscope with a superconducting lens system. (C11). 490912
- hydraulics**
An hydraulic straining stage for use in scanning electron microscopes. (E17). 473748
- performance testing**
Performance of a field emission gun TEM/STEM. (E42). 492198
- physical radiation effects**
Quantitative analysis of void swelling in pure copper. (B25). [Data] 494117
Radiation damage due to knock-on processes on carbon foils cooled to liquid helium temperature. (B25). 476384
- specifications**
Optimization of an analytical electron microscope for x-ray microanalysis: instrumental problems. (E42). 488287
- superconductors**
Shielding with superconducting tubes made of niobium-tin sinter material. (B22). 490606
- ELECTRON MICROSCOPY:**
- beam optics**
Monte Carlo electron trajectory simulation of beam spreading in thin foil targets. (E42). 480809
- biological radiation effects**
Contrast and radiation damages in biological specimens: an introduction. (C11). 494259
- cavities**
Electron microscopical techniques for the observation of cavities. (B25). 481907
- cross sections**
Electron-scattering cross sections pertinent to electron microscopy. (A12). 481027
- elastic scattering**
Electron scattering in high voltage electron microscopy. (A32). 475695
- electric potential**
Atomic mean-square displacements and the critical-voltage effect in cubic solid solutions. (A13). 471546
- electron diffraction**
Fundamental problems in the evaluation of electron micrographs. (A13). 474789
- electron probes**
Contribution to the contamination problem in transmission electron microscopy. (B11). 475903

- image processing**
Image analysis enhancement and interpretation. (A13). 483252
Possibilities of heavy atom discrimination using single-sideband techniques. (E42). 480800
- images**
Study of single-electron excitations by electron microscopy. (A32). 468241
- inverse scattering problem**
Uniqueness and the inversion problem of incoherent multiple scattering. (E42). 480812
- mathematical models**
Separation of the Schrodinger equation in the dynamical theory of electron diffraction, in the case of systematic reflections. (A13). 471535
- mice**
Electronmicroscopic study of gamma irradiated mouse spleen during primary immune response. (C45). 482168
- optical systems**
Signal-to-noise enhancement by superposition of bright-field images obtained under different illumination tilts. (E42). 480806
- phase shift**
Proposals for the solution of the phase problem in electron microscopy. (A13). 483285
- physical radiation effects**
Discussion on the limitations of 'in situ' deformation experiments in a high voltage electron microscope. (B25). 476389
Effect of ionising radiation on mobile-ion density in m.o.s. oxides. (A13, B25). [Data] 462166
Specimen contamination in analytical electron microscopy: sources and solutions. (E43). 482893
The structure of α -copper phthalocyanine and its susceptibility to radiation damage. (B25). 469415
- radiation effects**
Radiation damage in electron microscopy of inorganic solids. (A13). 477887
- sample holders**
Low-noise boron supports for high resolution electron microscopy. (E42). 480799
- spatial resolution**
Preliminary measurements of uranium atom motion on carbon films at low temperatures. (A13). 474915
- studies**
Visualization of alcohol-induced rhabdomyolysis: a correlative radiotracer, histochemical, and electron-microscopic study. (C62; /sup 99m/Tc-HEDP (a diphosphonate)). 473477
- voids**
Contrast in transmission electron micrographs of void arrays in crystals. (B25). 481893
- x-ray fluorescence analysis**
Effects of contamination in x-ray microanalysis. (A10, B11). 466997
- x-ray spectroscopy**
Energy dispersive x-ray analysis using a field emission gun: a precaution. (E42, A10). 470994
- ELECTRON MOBILITY:**
- argon**
Electron swarm motion at high fields in gases. (A12). 467320
- liquids**
Electron transport, electron attachment, electron-ion recombination and energy transfer in nonpolar liquids and solids. (A12). 474590
- renormalization**
Electrons in random potentials; a renormalization group approach. (A13). 464209
- solids**
Electron transport, electron attachment, electron-ion recombination and energy transfer in nonpolar liquids and solids. (A12). 474590
- ELECTRON MULTIPLIER DETECTORS:**
- microchannel electron multipli**
Microchannel plate detectors. (E41). 492181
- pulse discriminators**
A timing discriminator for channel plate electron multipliers. (E41). 485116
- ELECTRON MULTIPLIERS:**
See also MICROCHANNEL ELECTRON MULTIPLI
- charged particle detection**
Investigation of sputter-induced surface phenomena and continuous dynode electron multipliers. (E41, A13). 492099
- dynodes**
Studies of parallel plate electron multipliers. (E41). 492092
- leakage current**
Tritium-caused background currents in electron multipliers. (E41). 488263
- ELECTRON NEUTRINOS:**
See also ELECTRON ANTINEUTRINOS
- leptonic decay**
Neutrino test of muon number conservation and a measurement of the reaction $\nu_{\text{sub } e} + D \rightarrow p + e^- + p$. (A22). [Data] 486149
- ELECTRON NUCLEAR DOUBLE RESONA:**
See ENDOR
- ELECTRON PAIRS:**
- annihilation**
Electron-positron transformation into one photon in the nucleus field. (A11). 467128
- energy spectra**
Energy spectrum of e^+e^- pair produced in muon collision with atom. (A21). 464833
- mass resolution**
Mass resolution for lepton pairs at Isabelle. (A22). 475650
- pair production**
Absolute pair production cross section measurements in $Z = 92$ at energies near threshold. (A12). 488811
- Angular distribution of e^+e^- pairs produced by linearly polarized photons. (A21). 486089
Energy spectrum of e^+e^- pair produced in muon collision with atom. (A21). 464833
Estimation of the $^{12}\text{C}(\pi, e^+e^-)^{12}\text{B}$ reaction cross section at 164 MeV. (A34). 490117
On the e^+e^- pair production from a vacuum in coherent states. (A11). 467140
Production of high transverse momentum low-mass electron-positron pairs in high-energy pp collisions. (A22). 478537
Study of chi production properties at the CERN Intersecting Storage Rings. (A22). 478551
- particle models**
Evidence for a relativistic electron-pair model of nuclear particles. (A21). 472051
- particle production**
Quark-gluon plasma and production of leptons, photons and psions in hadron collisions. (A21; e^+ , μ^+ , tau/PSI, chi, PSI'). 493082
Study of high mass e^+e^- pairs produced in p-p collisions at the CERN ISR. (A22; $\sqrt{s} = 62.4$ GeV, transverse momentum, differential cross sections). [Data] 493098
- photoproduction**
Electron-positron pair production on a nucleus in the field of a bichromatic plane electromagnetic wave. (A11). 474419
Electron-positron pair production in the field of a longitudinal electric wave. (A11). 474446
Production of an electron-positron pair and a photon by a photon in the nuclear field. (A11). 463922
- scaling laws**
Scaling in electron-positron annihilation and quark structure. (A21). 481360
- ELECTRON PARAMAGNETIC RESONANC:**
See ELECTRON SPIN RESONANCE
- ELECTRON PLASMA WAVES:**
Large-amplitude electron plasma wave. (A14). 462289
Suppression of electron waves and deformation of the electron beam distribution function due to beam modulation. (A14). 462386
- antennas**
Antenna impedance in the lower hybrid region. (A14). 464392
- beam-plasma systems**
Cavitons. (A14). 464514
- boltzmann-vaslov equation**
Electrostatic waves in a weakly relativistic plasma. (A14). 462369
- damping**
Cyclotron damping of the space charge wave of beam in a nonuniformmagnetic field region. (A14). 475049
- dispersion relations**
Effect of the nonuniformity of magnetic field on the instability of plasma wave. (A14). 475138
- drift instability**
Theory of anomalous transport due to electrostatic fluctuations. (A14). 489350
- earth magnetosphere**
Particle precipitation caused by a single whistler-mode wave injected into the magnetosphere. (B33, A14). 460922
A study of emissions triggered in the magnetosphere by a V.L.F. transmitter. (B33, A14). 460933
Whistler wave induced evolution of warm magnetosphere due to cold plasma injection. (B33, A14). 463019
- electromagnetic radiation**
Radiation phenomena of plasma waves. 2. (A14). 467647
- energy losses**
Propagation of guided electron plasma waves on a planar plasma slab in the presence of dissipative processes. (A14). 471624
- ion acoustic waves**
Ion acoustic waves in the presence of electron plasma waves. (A14). 462368
- ionosphere**
Radiated instabilities by a finite electron beam-plasma interaction. (B33, A14). 460941
- landau damping**
Design constraints for rf-driven steady-state tokamak reactors. (A14). 464305
Observation of higher-order Landau mode of electron plasma. (A14). 462341
- nonlinear problems**
Nonlinear equation of evolution for electron plasma waves including collisions. (A14). 489235
- parametric instabilities**
Effect of convective loss on the parametric decay of cold electron plasma waves. (A14). 467722
- plasma instability**
Electron plasma wavelength fluctuations in a fluctuating plasma. (A14). 462313
Instabilities generated by electrons from the earth's bow shock. (B33, A14). 460924
- plasma microinstabilities**
Modulation instability in a magnetic field. (A14). 489307
- plasma simulation**
Particle simulation of spatially damped non-linear electron plasma waves. (A14). 464386
- precession**
Precessional rotation and other nonlinear effects in a magnetised plasma due to circularly polarised waves of the same frequency. (A14). 492741
- pulsars**
A model for the short-timescale structure of pulsar signals. (B33, A14). 460925
Strong magnetic field pulsar's effects on the beam plasma

- instability. (B33, A14). 463010
- radiation sources**
- Radiation phenomena of plasma waves, 3. (A14). 467649
- rotation**
- Precessional rotation and other nonlinear effects in a magnetised plasma due to circularly polarised waves of the same frequency. (A14). 492741
- simulation**
- Wavebreaking amplitudes in warm, inhomogeneous plasmas. (A14). 478096
- solar flares**
- Nonrelativistic electron acceleration in solar flares by strong electron plasma wave turbulence. (B33, A14). 460943
- toroidal configuration**
- Non-thermal emission at the plasma frequency. (A14). 489311
- two-dimensional calculations**
- Correlations and plasma oscillations of a two-dimensional classical electron system. (A14). 478180
- ultralow frequency radiation**
- Electron beam as non linear antenna for low frequency emission. (B33, A14). 460928
- wave packets**
- Nonlinear spatial evolution of electrostatic wave packet. (A14). 462388
- wave propagation**
- Excitation of electron plasma wave by using the slow waveguiding circuit, 1. (A14). 475051
- Propagation of guided electron plasma waves on a planar plasma slab in the presence of dissipative processes. (A14). 471624
- Radiation phenomena of plasma waves, 1. (A14). 467648
- Relativistic effects on electromagnetic wave propagation in cold inhomogeneous electron plasma. (A14). 462282
- ELECTRON PRECIPITATION:**
- Low-energy auroral particle observations. (B33). [Data] 484429
- The spectrum of auroral suprathermal electrons. (B33). [Data] 487149
- absorption**
- The relation between 10 to 80 keV electron precipitation observed at geosynchronous orbit and auroral radio absorption observed with riometers. (B33). 472885
- aurorae**
- Diffuse auroral precipitation. (B33). 476476
- auroral zones**
- Ulf waves in the auroral zone ionosphere and associated electron precipitation variations. (A15). 460109
- bremstrahlung**
- Bremstrahlung produced by precipitating electrons. (B33). 490895
- diffusion**
- Strong electron pitch angle diffusion observed at geostationary orbit. (B33). 479677
- e region**
- Optical evidence for mid-latitude charged particle precipitation. (B33, A15). 463011
- energy spectra**
- Investigation of energetic particles in the magnetosphere by the program of the international experiments "Sambo" using balloons. (B33). 494251
- long wave radiation**
- Theory of electromagnetic waves on auroral field lines. (B33). 476490
- ELECTRON PROBES:**
- microanalysis**
- Microanalysis with electron and ion probes. (B11). 468600
- x radiation**
- An empirical calculation of the depth distribution of primary x-ray production. (A12). 485478
- ELECTRON REACTIONS:**
- See also ELECTROFISSION
- Leptonic probes of nuclear densities. (A33; Critical review). [Data] 486270
- algebraic currents**
- Exchange currents and the radial distributions of valence nucleons as determined from elastic electron scattering. (A33). 468300
- angular distribution**
- Formalism and applications of electrofission and photofission fragment angular distributions. (A33). 486190
- bremstrahlung**
- Search for axion production in low-energy electron bremstrahlung. (A22, A11). 489918
- coulomb correction**
- On the second-order Coulomb correction to electron elastic scattering by nuclei in the shell model. (A33). 465008
- cross sections**
- Elastic scattering of electrons on nuclei with magnetic octupole moments with account of the second Born approximation. (A33). 493241
- deep inelastic scattering**
- Analysis of nucleon structure function moments from electron and muon data and critical tests of asymptotic freedom. (A21). 471993
- Observation of parity violation in polarized electron scattering. (A21; 19.4 and 22.2 GeV, preliminary analysis, asymmetry). 468136
- Test of a scaling law for quasi-elastic electron scattering. (A34). 468584
- deformed nuclei**
- Eikonal approximation for magnetic scattering of high-energy electrons on deformed nuclei. (A33). 493198
- High-energy electron scattering on oriented deformed nuclei in the eikonal approximation. (A33). 493199
- depolarization**
- Depolarization of the projectile in (e, e'p) scattering. (A21). 471975
- deuterium target**
- Analysis of nucleon structure function moments from electron and muon data and critical tests of asymptotic freedom. (A21). 471993
- differential cross sections**
- The (γ, p_e) reactions in the giant dipole resonance region of ^{11}V and ^{52}Cr nuclei. (A34). 483935
- Calculation of the differential cross section for excitation by electrons of argon $^{1}\text{P}_1$, $^{3}\text{P}_1$, $^{3}\text{P}_0$, $^{3}\text{P}_2$ states at 30 eV. (A33). 472197
- Electron elastic scattering on nuclear multipole moments. (A33). 493200
- elastic scattering**
- Center-of-mass corrections of the shell model wave functions. (A33; Form factors). 468338
- Elastic electron scattering at large momentum transfer. (A33; Review). 486189
- Electroexcitation of ^{22}Ne below $E_{\text{sub}} \times / < 8.6$ MeV. (A34). 486426
- Electron scattering from the ground-state magnetization distribution of ^{17}O . (A34). 490182
- Experimental determination of the neutron radial distribution in the $1g_{9/2}$ shell. (A34). 472227
- Nucleon structure and nucleon-nucleon interaction. (A33). 468429
- On exchange currents in electron scattering. (A33). 468397
- Parity violation in polarised electron deuteron scattering. (A33). 468368
- Polarized-electron elastic scattering asymmetries in $\text{SU}(2) \times \text{U}(1)$. (A21). [Data] 464794
- The structure of ^4He and elastic electron scattering. (A33, A34). 468413
- 180° elastic electron scattering from the magnetization distributions of ^{25}Mg and ^{93}Nb . (A34). 475863
- 180° electron scattering from ^3He . (A34). 475820
- electroproduction**
- Electroproduction of charged pions from ^{12}C leading to discrete final nuclear states. (A34). 490217
- holes**
- On the study of hole states by the continuum shell-model formalism. (A33). 468306
- inelastic scattering**
- Analyses of inelastic proton and electron scattering to the 2^+ (4.43 MeV) state in ^{12}C . (A33). 486185
- Center-of-mass corrections of the shell model wave functions. (A33; Form factors). 468338
- Concerning the existence of a 16 MeV level in ^6Li . (A34). 475845
- Distribution of E2 strength in ^{28}Si below 50 MeV excitation energy. (A34). [Data] 465206
- Effects of odd-parity components of the deuteron on inelastic polarized-electron-deuteron scattering. (A21). 489837
- Electro- and photodisintegration of deuterium. (A33). 468264
- Electroexcitation of ^{22}Ne below $E_{\text{sub}} \times / < 8.6$ MeV. (A34). 486426
- E0, E1, E2, E3, and E4 giant resonances in the $N = 82$ nucleus ^{140}Ce between 4 and 48 MeV excitation energy with inelastic electron scattering. (A34). 478761
- Inelastic electron scattering from ^{16}N at 180° . (A34). 475802
- Isoscalar character of the $J/\text{sup } \pi^- = 6^+$, $E_{\text{sub}} \times / = 5.125$ MeV state in ^{58}Ni . (A34). 468521
- $\text{O}(4) \times \text{U}(1)$ gauge model. (A21). 486079
- Parity violation in inelastic scattering of polarized electrons. (E16, A22). 491655
- Parity violation in polarized-electron-deuteron scattering without the parton model. (A21, A11). 464776
- A strong magnetic dipole excitation in ^{40}Ca observed in high-resolution inelastic electron scattering and coherent spin-flip transitions due to ground-state correlations. (A34). 490170
- The study of giant resonances in nuclei by inelastic scattering. (A33). 468402
- Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082
- 180° electron scattering from ^3He . (A34). 475820
- magnetic spectrometers**
- A system of dipole magnets for 180° electron scattering. (E41, E16). 477383
- mott scattering**
- Exchange currents and the radial distributions of valence nucleons as determined from elastic electron scattering. (A33). 468300
- multipole transitions**
- Virtual photon intensity and finite nuclear size effects. (A33). 462618
- neutral-current interactions**
- Gauge model of parity nonconservation in neutral-current phenomena. (A21, A12; $\text{SU}(2) \times \text{U}(1) \times \text{U}(1)$). 478475
- Gauge models and neutral-current interactions. (A21). 468041
- nuclear structure**
- Investigation of core structure of nuclei by electrons. (A34). 465190
- On the study of hole states by the continuum shell-model formalism. (A33). 468306
- p invariance**
- Effects of odd-parity components of the deuteron on inelastic polarized-electron-deuteron scattering. (A21). 489837
- Parity violation in inelastic scattering of polarized electrons. (E16, A22). 491655
- Parity violation in inelastic scattering of polarized electrons. (A22; 19.4 and 22.2 GeV, asymmetry, cross sections). [Data] 478563
- Parity violation in polarised electron deuteron scattering. (A33). 468368
- Winner of the vector-model look-alike contest. (A21). 475567
- photons**
- Virtual photon intensity and finite nuclear size effects. (A33). 462618

| | |
|---|--------|
| polarization | |
| Electron-deuteron tensor polarization and the short range behavior of the deuteron wave function. (A33). | 475702 |
| quasi-elastic scattering | |
| (e,e'p) reactions at Saclay. (A32, A34). | 468248 |
| ³ He(e,e'p) : A proposed experiment. (A34, A33). | 468531 |
| ³ He(e,e'p): a proposed experiment. (A33). | 481500 |
| Electrodisintegration of the few-body systems and realistic interactions. (A33). | 468289 |
| Quasi elastic electron scattering from the deuteron. (A34). [Data] | 481592 |
| Quasi elastic electron scattering from the deuteron. (A34). | 468554 |
| Research progress on quasielastic electron scattering at the Saclay Linear Accelerator. (A34). | 481534 |
| quasi-free reactions | |
| Validity of the factorized DWIA in (e,e'p) reactions. (A33). | 483727 |
| resonance scattering | |
| Decay modes of giant resonances in ⁵⁸ Ni, ⁶⁰ Ni, and ⁶² Ni. (A34). | 468578 |
| scattering | |
| Outlook. (A34, A33; planned and recommended experiments and calculations in the field of electron scattering by deuteron, helium 3 and triton). | 468559 |
| scattering amplitudes | |
| Highest Born approximations in the elastic scattering of electrons by the Coulomb nuclear field with a shell form factor. (A33). | 493290 |
| spallation | |
| ee'p experiments at Saclay linear accelerator. (A34). | 472230 |
| Effect of the nuclear structure of He ³ and H ³ on their complete electrodisintegration cross section. (A33). | 465062 |
| spin flip | |
| A strong magnetic dipole excitation in ⁴⁰ Ca observed in high-resolution inelastic electron scattering and coherent spin-flip transitions due to ground-state correlations. (A34). | 490170 |
| transition amplitudes | |
| On the question of nonorthogonality of initial and finite nuclear states in the theory of (e, e'p) reaction. (A33). | 475748 |
| uranium 238 target | |
| Formalism and applications of electrofission and photofission fragment angular distributions. (A33). | 486190 |
| ELECTRON RINGS: | |
| Equilibrium properties of finite length E-layers and E-rings in a cusped magnetic field system. (A14). | 475137 |
| Intense relativistic electron ring for plasma confinement. (A14). | 475094 |
| Reversed field configuration created by a helical intense REB. (A14). | 475082 |
| Reversed field geometry generated with a rotating e-beam. (A14). | 475126 |
| beam bunching | |
| Stationary nonlinear azimuthal waves in circulating charged beams. (E16). | 477006 |
| beam dynamics | |
| Calculation of alternating magnetic fields in an adgeization of composite wall configuration. (E16). | 491590 |
| On the formation of electron rings in static and pulse magnetic fields. (E16). | 470369 |
| Separation of electron ion ring components (computational simulation and experimental results). (E16). | 470366 |
| electric impedance | |
| On the impedance of rotating-electron cylindrical layer in an open periodic structure. (E16). | 494739 |
| ion-ion collisions | |
| Ion accumulation in electron rings. (E16; Ar ⁺ , Kr ⁺ , Xe ⁺). | 473725 |
| kink instability | |
| Simulation of the electron-ion ring kink instability. (E16). | 494829 |
| nonlinear problems | |
| Numerical study of nonlinear effects in the electron-ion instability in a particle ring. (E16). [Data] | 473689 |
| reverse-field pinch | |
| Recent results and work on field-reversing E- and P-layers. (A14). [Data] | 464502 |
| size | |
| On the RMS-dimensions of circular charged particle beams. (E16). | 470391 |
| two-stream instability | |
| Numerical study of nonlinear effects in the electron-ion instability in a particle ring. (E16). [Data] | 473689 |
| ELECTRON SOURCES: | |
| Electron beam studies on the high-current ERG accelerator. (A14, E16). | 474975 |
| Properties of high v/γ diodes using thin foil anodes. (A14). | 475019 |
| beam transport | |
| Magnetic self-insulation of vacuum transmission lines. (A14). | 474945 |
| Pulsed power research. (A14; MITE-self-magnetically insulated vacuum transmission line experiment and EBFA research). | 477979 |
| carbon dioxide lasers | |
| Pulsed cold cathode electron beam gun for laser application. (A14). | 471690 |
| current density | |
| Facility for irradiation with high-energy electrons. (D14, C55). | 461454 |
| Performance characteristics of large area electron accelerators. (E16, A12). | 477038 |
| electric discharges | |
| Prepulse influence on the electron beam pinch behavior in a large aspect ratio diode. (A14). | 474967 |
| fabrication | |
| Effect of diode and array geometrical parameters on performance of high field electron emitters formed from unidirectionally solidified uranium dioxide - tungsten composites. (B23). | 469378 |
| performance | |
| Effect of diode and array geometrical parameters on performance of high field electron emitters formed from unidirectionally solidified uranium dioxide - tungsten composites. (B23). | 469378 |
| pinch effect | |
| Prepulse influence on the electron beam pinch behavior in a large aspect ratio diode. (A14). | 474967 |
| polarized beams | |
| A source of highly polarized electrons at the Stanford Linear Accelerator Center. (E16, D14). | 491559 |
| power supplies | |
| Applications: REP-rate pulse power technology. (A14). | 477978 |
| research programs | |
| Particle beam source development. (A14). | 477982 |
| simulation | |
| Study of relativistic electron beams generated by a foillless diode. (A12). | 464010 |
| specifications | |
| Proposal for the study of laminar relativistic electron beam generation by a foillless diode. (A14). | 471667 |
| windows | |
| Electron beam tube for irradiation purposes with high electron beam intensity. (D14). | 461457 |
| ELECTRON SPECTRA: | |
| Modified version of SAMPO for TSO graphics analysis of nuclear spectroscopic data. (E41; In Fortran for IBM 3033). | 466770 |
| Electron measurements (18 keV-20 eV) in auroral events. (B33). | 479733 |
| correlations | |
| On the nature of correlation between redox potentials for actinoid elements and electronic spectra of their compounds in solutions. (B13). | 476130 |
| electron-proton interactions | |
| Measurement of a "radiation tail" of the electron spectrum in the ep → e'pγ reaction. (A34). | 465234 |
| energy spectra | |
| Determination of backscattering coefficients for low energy electrons in different gases. (C11, C55). | 465892 |
| internal conversion | |
| Internal conversion electron measurements following the decay of ¹⁵² Eu. (A34). | 468462 |
| slowing-down | |
| Calculated electron slowing-down spectra for liquid water irradiated by x and gamma rays - Implications for photon RBE. (C11, C55). [Data] | 463061 |
| ELECTRON SPECTROMETERS: | |
| auger electron spectroscopy | |
| A cylindrical-mirror electron spectrometer for studies of gases and metal vapours. (E41). | 485133 |
| coincidence spectrometry | |
| (e,2e) experiments on atomic hydrogen: comparison with the distorted and plane wave impulse approximations. (A12). | 459774 |
| A new electron coincidence spectrometer with position sensitive detectors. (E41). | 461829 |
| control systems | |
| Microcomputer automation of the sample probe of an ESCA spectrometer. (E41). | 485060 |
| electrostatic spectrometers | |
| Calculation of the optical-spectral characteristics of the prismatic electron spectrometers. (E41). | 488273 |
| energy spectra | |
| A simple electron spectrometer for energy analysis in the transmission microscope. (E41). | 477343 |
| ionization | |
| Electron spectrometer for the study of ionisation particularly near the forward direction. (E41). | 492218 |
| li-drifted si detectors | |
| A combination intermediate-image magnetic plus Si(Li) electron spectrometer for in-beam experiments. (E41). | 470911 |
| Si(Li) electron spectrometer with superconducting transport magnets. (E41). | 495125 |
| magnetic spectrometers | |
| High resolution spectrometers for electron scattering. (E41). | 485030 |
| Magnetic electron spectrometers and their in-beam use. (E41). | 485104 |
| permanent magnets | |
| Conversion electron spectrometer with the "MINIORANGE" type magnetic filter. (E41). | 495100 |
| photoelectron spectroscopy | |
| A cylindrical-mirror electron spectrometer for studies of gases and metal vapours. (E41). | 485133 |
| sacley linac | |
| (e,e'p) reactions at Saclay. (A32, A34). [Data] | 468248 |
| si semiconductor detectors | |
| Conversion electron spectrometer with the "MINIORANGE" type magnetic filter. (E41). | 495100 |
| specifications | |
| A new electron coincidence spectrometer with position sensitive detectors. (E41). | 461829 |
| superconducting magnets | |
| Si(Li) electron spectrometer with superconducting transport magnets. (E41). | 495125 |
| ELECTRON SPECTROSCOPY: | |
| See also AUGER ELECTRON SPECTROSCOPY; PHOTOELECTRON SPECTROSCOPY | |

- Electron spectroscopy. (E41). 48289
- energy losses**
- Electron energy loss spectroscopy for chemical analysis in the transmission electron microscope. (B12). 462742
- Electron loss spectra from a W(001) surface. (B22). 460682
- in-beam spectroscopy**
- In-beam observation of low-energy electrons. (A34). 490151
- molecular structure**
- Momentum distributions for the valence orbitals of hydrogen fluoride. (A12). 488773
- monochromators**
- System to analyse the energy distribution of electrons using a spherical grid filter allowing high energy electrons to pass. (E41). 461841
- optimization**
- The choice of operating parameters for microanalysis by electron energy-loss spectroscopy. (B11). 475884
- surfaces**
- Quantitative electron spectroscopy of surfaces. (B11, A32). [Data] 478861
- ELECTRON SPIN RESONANCE:**
- cryostats**
- Multiple-purpose system for low temperatures. (A13). 471566
- iron sulfates**
- EPR of VO^{2+} in $\text{FeCs}_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ single crystals. (A13). 459807
- line widths**
- Direct calculation of the orientational distribution function of partially ordered ensembles from the EPR line shape. (A10). 488532
- liouville theorem**
- Variational method and the stochastic-Liouville equation. II. ESR spectral simulation via finite elements. (A11). 488728
- optical systems**
- Construction of a system for the optical detection of electron paramagnetic resonance. (A13). 471552
- radiation effects**
- EPR study of free-radical states in gamma-irradiated normal or neoplastic animal tissues. (C11). 465922
- radicals**
- EPR study of free-radical states in gamma-irradiated normal or neoplastic animal tissues. (C11). 465922
- recombination**
- ESR study of active centers recombination kinetics in gamma irradiated polypropylene (PP). (B14). 493788
- spectra**
- Radiation-chemical study of one-electron reduction of pentacyanonitrosylferrate(II) ion in frozen solution. (B14). [Data] 472512
- vanadium ions**
- EPR of VO^{2+} in $\text{FeCs}_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ single crystals. (A13). 459807
- ELECTRON TEMPERATURE:**
- bremsstrahlung**
- Pulse pileup effects on plasma electron temperature measurements by soft X-ray energy analysis. (E42, A14). 485139
- laser-produced plasma**
- Estimation of temperature and fractions of superthermal electrons in laser produced plasmas. (A14). 492764
- magnetic field configurations**
- Electron temperature of a plasma under longitudinal magnetic confinement. (A14). 492800
- magnetic fields**
- Electron temperature of a plasma under longitudinal magnetic confinement. (A14). 492800
- pulse pileup**
- Pulse pileup effects on plasma electron temperature measurements by soft X-ray energy analysis. (E42, A14). 485139
- temperature measurement**
- Estimation of temperature and fractions of superthermal electrons in laser produced plasmas. (A14). 492764
- time dependence**
- Dynamics of tokamak discharges dominated by the trapped-electron instability. (A14). 485757
- ELECTRON TRANSFER:**
- (Not for the concept covered by CHARGE EXCHANGE.)
- Double electron transfer and related reactions. (A12; Cross sections, reaction kinetics). [Data] 477701
- Electron transfer reactions in frozen media. (B12). 472469
- solutions**
- The role of electron-phonon interaction and non-Gaussian transport in spectral changes of trapped electrons in glasses. (B14). 460585
- ELECTRON TUBES:**
- See also CATHODE RAY TUBES; COUNTING TUBES; DIODE TUBES; DUOPLASMATRONS; ELECTRON MULTIPLIERS; FLASH TUBES; GAS DISCHARGE TUBES; KLYSTRONS; MAGNETRONS; MICROCHANNEL ELECTRON MULTIPLY; MICROWAVE TUBES; PLASMATRONS; THERMIONIC DIODES; THERMIONIC TUBES; TRIODE TUBES; TRIPLASMATRONS; X-RAY TUBES
- computer-aided design**
- Computer modeling of the gyrocon. (E16, E13). 494862
- industrial radiography**
- Electron beam source with an electron outlet window connected with a window flange. (D14, D23). 466451
- industry**
- Electron beam source with an electron outlet window connected with a window flange. (D14, D23). 466451
- radiative cooling**
- Radiation-cooled multistage collector. (E42). 461896
- ELECTRON-ATOM COLLISIONS:**
- angular correlation**
- Coherent excitation of the 2^1P state of He for large momentum transfer electron scattering. (A12). [Data] 462124
- Electron-photon angular correlation in atomic physics. (A12). 483143**
- anions**
- Resonant laser induced negative ion production. (A12). 477795
- argon**
- Angular dependence of the energy loss spectra for argon by low energy electron impact. (A12). 467331
- auger effect**
- Auger-electron ejections from xenon N sub(4,5)OO and krypton M sub(4,5)NN processes by electron impact near threshold. (A12). 467275
- Energy and angular distributions of electrons from atoms and molecules by electron impact. (A12). 467279
- PCI in K-Lsub(2,3)Lsub(2,3) Auger processes following electron impact ionisation of Ne. (A12). [Data] 471347
- autoionization**
- Energy and angular distributions of electrons ejected from autoionization states in helium by electron impact. (A12). 467278
- Excitation of autoionising states in noble-gas atoms by fast electrons: neon. (A12). 483133
- Near-threshold effects in ionization of atoms (post collision interaction). (A12). 492509
- born approximation**
- The calculation of certain second Born integrals. (A12). 483177
- High-energy higher-order Born approximations: Theoretical development. (A12). 477844
- An improved second Born calculation of e-He elastic scattering at intermediate energies. (A12). 459723
- bremsstrahlung**
- Electron bremsstrahlung angular distributions in the 1-500 keV energy range. (A12). 467330
- Inverse bremsstrahlung absorption in strong radiation fields during binary collisions: 'straight-line path' approximation. (A12). 488884
- computer calculations**
- Recent developments in electron collision calculations. (A12). 483141
- cross sections**
- Minimization of the effective electron-neutral particle collision cross section in partially ionized noble gases. (A12). 483149
- decay**
- Decay models for highly excited states of He⁺. (A12). 488758
- differential cross sections**
- Accurate e-He cross sections below 19 eV. (A12). [Data] 471375
- Alignment and orientation parameters for excitation of the ground state of helium to the 2^1P state by 81 eV electrons. (A12). [Data] 462113
- Comment on the resonances near the $n = 3$ threshold in e-He scattering. (A12). [Data] 463930
- Differential cross sections for the excitation of the 2^1S and 2^1P states in helium by electron impact. (A12). 467324
- e-H scattering at intermediate energies. (A12). [Data] 477745
- Triple differential cross sections for the ionisation of atomic hydrogen by electron impact from 100 to 250 eV. (A12). 474658
- Triple differential cross sections for the electron impact ionisation of helium at 35 eV collision energy. (A12). [Data] 462147
- Triple differential cross section for electron impact ionisation of the hydrogen atom. (A12). [Data] 462129
- distorted wave theory**
- Off-diagonal potentials in the distorted-wave expansion for electron-atom scattering. (A12). 481052
- elastic scattering**
- Absolute total cross sections for electron-mercury scattering. (A12). 464011
- Analysis of low-energy scattering cross sections. (A12). [Data] 471397
- Behavior of the eigenphase sum near a resonance. (A12). 463997
- Comments on the eikonal-Born series approach to electron-atom scattering. (A12). [Data] 462152
- Elastic e-Li scattering using integral approach. (A12). [Data] 462119
- Electron-rubidium differential elastic spin exchange and electron-lithium total cross section measurements. (A12; Differential cross sections, 0.8 to 1.4 eV). 459765
- High-energy higher-order Born approximations: Theoretical development. (A12). 477844
- An improved second Born calculation of e-He elastic scattering at intermediate energies. (A12). 459723
- An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
- Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
- electron correlation**
- High-energy electron experiments. I. Total and differential cross-sections for multiple ionization. (A12). 485545
- Some experiments on collisions between electrons and atoms or ions which investigate correlation effects. (A12). 485432
- Theoretical aspects of electron correlations in electron collisions. (A12). 485462
- electron spectra**
- PCI in K-Lsub(2,3)Lsub(2,3) Auger processes following electron impact ionisation of Ne. (A12). [Data] 471347
- electronic structure**
- L^2 discretization of atomic and molecular electronic continua: moment, quadrature and J-matrix techniques. (A12). 483213
- energy losses**
- Angular dependence of the energy loss spectra for argon by low energy electron impact. (A12). 467331
- energy spectra**
- Studies of post-collision interactions for electrons ejected from autoionising levels of helium excited by low-energy electrons. (A12). 488759

| | |
|--|--------|
| energy-level transitions | |
| Free-free radiative transitions of electron-atom systems. (A12). | 459746 |
| excitation | |
| Anisotropy and time dependence in atomic collisions. (A12). | 477780 |
| Application of an extremum principle to the variational determination of the generalized oscillator strengths of helium and hydrogen atom in intense magnetic fields. (A12, A15; Cross sections). | 485549 |
| Atomic model for neutral and singly ionized uranium. (A12; eV range). [Data] | 471361 |
| The Bethe approximation: where to draw the line. (A12). | 481025 |
| Coherent-state multipole moments in electron-hydrogen impact excitation. (A12). | 485395 |
| Correlations of excited electrons. (A12). | 485441 |
| Electron impact excitation of the $(2p^2)^1P$ doubly excited state of helium. (A12). | 492550 |
| Electron impact excitation of the 2^1S state of helium at intermediate energies. (A12). | 474585 |
| Electron impact excitation of the 2^1P and 2^3S levels of helium. (A12). [Data] | 462098 |
| Electron-hydrogen-atom collisions in the presence of a laser field: Born-Oppenheimer approximation. (A12). | 474562 |
| Electron-impact excitation of the beryllium isoelectronic sequence. (A12). | 488807 |
| Electron-impact excitation of $n < 2$ levels of helium at intermediate energies. (A12). | 485406 |
| Excitation of autoionising states in noble-gas atoms by fast electrons: neon. (A12). | 483133 |
| Experiments on multiphoton free-free transitions. (A12). | 488927 |
| Higher-order distorted-wave methods. (A12). [Data] | 474680 |
| Inner shell excitation of atoms and molecules by electron impact with high energy resolution. (A12). | 467292 |
| Measurement of excitation cross section of the 6^3P_1 state of Hg using self-calibrating apparatus. (A12). [Data] | 464013 |
| Selected topics from the theory of electron-atom and atom-atom collisions. (A12). | 459756 |
| Some aspects of the interaction of photons and electrons with rare gas atoms. (A12). | 483230 |
| Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] | 464092 |
| The $1^1S \rightarrow 2^1S$ and $1^1S \rightarrow 1^3P$ excitation of helium by electron impact. (A12). | 477738 |
| excited states | |
| Systematic trends in the inelastic cross sections and form factors for $n'l \rightarrow n'l'$ direct collisional transitions. (A12). | 481020 |
| forbidden transitions | |
| Excitation of $^1S(1s,3s)$ state of helium by electron impact in the Glauber approximation. (A12). [Data] | 481046 |
| helium | |
| Alignment and orientation parameters for excitation of the ground state of helium to the 2^1P state by 81 eV electrons. (A12). [Data] | 462113 |
| Analysis of low-energy scattering cross sections. (A12). [Data] | 471397 |
| Coherent excitation of the 2^1P state of He for large momentum transfer electron scattering. (A12). [Data] | 462124 |
| Cross sections for the ionisation of helium by electron impact in a distorted-wave model. (A12). [Data] | 471320 |
| Distorted-wave approximations for the triple-differential cross section for ionisation of helium by electron impact. (A12). | 462101 |
| Electron impact excitation of the 2^1S state of helium at intermediate energies. (A12). | 474585 |
| Electron impact excitation of the 2^1P and 2^3S levels of helium. (A12). [Data] | 462098 |
| Energy and angular distributions of electrons ejected from autoionization states in helium by electron impact. (A12). | 467278 |
| Excitation of $^1S(1s,3s)$ state of helium by electron impact in the Glauber approximation. (A12). [Data] | 481046 |
| Triple differential cross sections for the electron impact ionisation of helium at 35 eV collision energy. (A12). [Data] | 462147 |
| The $1^1S \rightarrow 2^1S$ and $1^1S \rightarrow 1^3P$ excitation of helium by electron impact. (A12). | 477738 |
| hydrogen | |
| De Vogelaere's method with automatic error control. (A12, F51). | 483150 |
| Differential cross section for the excitation of the $2s$ state of atomic hydrogen by electron and positron impact at intermediate energies. (A12). | 462120 |
| Differential cross section and generalised oscillator strength for the $1s \rightarrow (2s+2p)$ transition in atomic hydrogen for incident electron kinetic energies 136, 200 and 300 eV and scattering up to 20° . (A12). [Data] | 462155 |
| Electron impact ionisation of atomic hydrogen: experimental and theoretical (e, 2e) differential cross sections. (A12). [Data] | 474675 |
| Electron-photon angular correlations in the electron impact excitation of $H(2p)$. (A12; 43 refs.). | 488830 |
| The exact solution for a simplified model of electron scattering by hydrogen atoms. (A12). | 462144 |
| impulse approximation | |
| (e,2e) experiments on atomic hydrogen: comparison with the distorted and plane wave impulse approximations. (A12). | 459774 |
| inelastic scattering | |
| Calculation of 2P shape resonances in Be and Mg. (A12). | 467243 |
| Inelastic electron scattering from atomic oxygen. (A12). | 488842 |
| Systematic trends in the inelastic cross sections and form factors for $n'l \rightarrow n'l'$ direct collisional transitions. (A12). | 481020 |
| inner-shell ionization | |
| Ionization of inner shells of atoms taking account of outer shell rearrangement. (A12). | 477697 |
| The L_1-shell ionisation of atoms by relativistic particles. (A12). | |
| [Data] | 471367 |
| ionization | |
| (e, 2e) collisions. (A12). | 488926 |
| Atomic model for neutral and singly ionized uranium. (A12; eV range). [Data] | 471361 |
| Averaged ionization cross sections and rate coefficients in a partially ionized gas for small and high electron energy. (A12). | 477772 |
| Calculation of K-vacancy production by relativistic projectiles. (A12). | 474548 |
| Comment on a recent fast beam measurement of the electron impact ionisation cross sections of He, C, O and N atoms. (A12). | 488867 |
| Cross sections for the ionisation of helium by electron impact in a distorted-wave model. (A12). [Data] | 471320 |
| Doubly differential cross sections of secondary electrons ejected from gases by electron impact. 50–300 eV on helium. (A12). | 464089 |
| Electron energy calibrations in the Culham crossed-beams experiments: a reply to the letter of Maerk and de Heer. (A12). | 488820 |
| Electron excitation of alkali atoms. (A12; EACLOC computer code for excitation of alkali atoms by electron collisions). | 474642 |
| High energy electron experiments. II. Binary and dipole (e,2e) methods. (A12). | 485546 |
| High-energy electron experiments. I. Total and differential cross-sections for multiple ionization. (A12). | 485545 |
| Ionization of hydrogen atoms by electron impact. (A12). | 488780 |
| Ionization of inner shells of atoms taking account of outer shell rearrangement. (A12). | 477697 |
| Ionization yield in neon due to electron impact. (A12). | 488788 |
| L-subshell ionization cross sections for tungsten at low electron energies. (A12). | 485417 |
| M/sub 4,5/N/sub 4,5/X Auger electron spectra of iodine and xenon Many-body effects. (A12). | 488745 |
| Measurements of the electron impact ionisation cross sections of He, C, O and N atoms. (A12, A14). | 462102 |
| Theoretical cross sections for ionization of metastable excimers Ne^*_2 and Ar^*_2 by electron impact. (A12). | 474622 |
| TIGERP. (A32, A12; Monte Carlo method). | 490026 |
| Triple differential cross sections for the ionisation of atomic hydrogen by electron impact from 100 to 250 eV. (A12). | 474658 |
| Triple differential cross section for electron impact ionisation of the hydrogen atom. (A12). [Data] | 462129 |
| laser radiation | |
| Generalized low-frequency approximation for scattering in a laser field. (A12). | 464014 |
| Resonant laser induced negative ion production. (A12). | 477795 |
| Scattering of a charged particle by a model atom in the presence of a low-frequency laser. (A12). | 467263 |
| lithium | |
| Elastic e-Li scattering using integral approach. (A12). [Data] | 462119 |
| mercury | |
| Electron impact spectra of mercury in intermediate energies. (A12). | 481055 |
| metastable states | |
| Collisions of electrons with atoms in the metastable states. (A12). | 467347 |
| nuclear potential | |
| Model-potential method for the calculation of atom-rare-gas interactions: application to the Na-Ne system. (A12). | 492544 |
| Off-diagonal potentials in the distorted-wave expansion for electron-atom scattering. (A12). | 481052 |
| optical models | |
| The optical model in atomic physics. (A12). [Data] | 464040 |
| phase shift | |
| A phaseshift analysis of experimental angular distributions of electrons elastically scattered from He, Ne and Ar over the range 0.5 to 20 eV. (A12). [Data] | 474678 |
| R-matrix calculation of low-energy e-He scattering. (A12). [Data] | 462139 |
| Variable-phase approach to electron-hydrogen elastic scattering. (A12). [Data] | 477828 |
| polarization-asymmetry ratio | |
| Optimum condition of electron spin polarization (ESP) detector using mercury vapour. (A12). | 471417 |
| potential scattering | |
| Generalized low-frequency approximation for scattering in a laser field. (A12). | 464014 |
| Scattering of a charged particle by a model atom in the presence of a low-frequency laser. (A12). | 467263 |
| quantum mechanics | |
| Quantum defect theory approach. (A12). | 485530 |
| r matrix | |
| R-matrix theory of atomic and molecular processes. (A12). | 477714 |
| Recent developments in electron collision calculations. (A12). | 483141 |
| relaxation | |
| TIGERP. (A32, A12; Monte Carlo method). | 490026 |
| resonance scattering | |
| Some aspects of resonance scattering of electrons on atoms and diatomic molecules. (A12). | 467236 |
| Stieltjes-moment-theory technique for calculating resonance widths. (A12). | 463996 |
| s matrix | |
| Approximation of neighboring singularities of the s matrix for the electron-hydrogen atom scattering. (A11). | 471271 |
| Low-energy electron-excited-atom scattering: quasi-degenerate case. (A14). | 483346 |

- scale invariance
Resonances and complex scaling: a rigorous overview. (A12). 467312
- scattering amplitudes
Accurate e-He cross sections below 19 eV. (A12). [Data] 471375
Comments on the eikonal-Born series approach to electron-atom scattering. (A12). [Data] 462152
Complex scaling transformations in stationary and scattering problems. (A12; Review). 467184
An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
- Left-cut contribution to the dispersion relation for the elastic electron - atomic-hydrogen scattering amplitude. (A12). 474547
- scattering lengths
Accurate determination of the scattering length of electrons on μ p atoms. (A12). 462118
Application of a variational principle for the scattering length for the target wave function imprecisely known. (A12). 477702
- schroedinger equation
De Vogelaere's method with automatic error control. (A12, F51). 483150
- schwinger variational method
Application of the Schwinger variational principle to electron scattering. (A12). 488864
- spin exchange
Electron scattering from hydrogen: Collisions in which the total spin quantum numbers change. (A12). 474599
- stark effect
Low-energy electron-excited-atom scattering: quasi-degenerate case. (A14). 483346
- straight-line path approximati
Inverse bremsstrahlung absorption in strong radiation fields during binary collisions: 'straight-line path' approximation. (A12). 488884
- total cross sections
Absolute total cross sections for electron-mercury scattering. (A12). 464011
Electron - rubidium differential elastic spin exchange and electron - lithium total cross section measurements. (A12; Differential cross sections, 0.8 to 1.4 eV). 459765
Scattering of electrons and ions on an excited hydrogen atom. (A12). 483137
Study of the spatial variation of macroscopic quantities in a weakly ionized gas. (A12). [Data] 488880
Total cross sections for electron scattering by Ne, Ar, Kr and Xe. (A12). [Data] 462123
- variational methods
Matrix variational calculations of electron-atom scattering. (A12). 483205
- vibrational states
The influence of long-range interaction on excitation of polar molecules and atoms by electrons. (A12). 463983
- ELECTRON-CAPTURE DETECTORS:**
(Instrument for gas analysis which incorporates an ionization chamber and internal beta source.)
- gas chromatography
Practical remarks about the application of electron capture detector in the chromatographic trace analysis. (B11). 490296
- performance
Theoretical description of electron-capture detector characteristics. (E41). 477400
- performance testing
Detection of electronegative compounds analysed on capillary column by means of electron capture micro-detector. (D22). 494672
- specifications
Method to analyze gas mixtures and suitable electron capture-detector to perform the method. (E42). 471009
Methods and apparatus for improving electron capture detectors by collection of ions. (D22; Patent). 480319
- ELECTRON-ELECTRON INTERACTIONS:**
differential cross sections
Elastic $e^+e^-(e^-e^-)$ scattering with polarized beams. (A21). [Data] 475584
- weak interactions
On a possible effect of lepton weak interaction on electron-electron (muon) scattering. (A21). 475570
- ELECTRON-ION COLLISIONS:**
angular momentum
Angular momenta near ionisation thresholds for electron-ion collisions. (A12). 488816
- bcc lattices
The electron-ion interactions in metals. (A13). 459820
- born approximation
A comparison between the Born and Coulomb-Born approximations for high energy electron impact excitation of helium-like ions. (A12). 481031
- bremsstrahlung
Extension to high frequencies of a program for calculating the angular distribution of nonrelativistic bremsstrahlung. (A12, F51). 483136
Non-relativistic bremsstrahlung intensity components in the high-frequency range. (A12). 483135
- carbon ions
Measurements of cross sections for detachment of electrons from C- and O- ions by electron impact. (A12). [Data] 462142
- correlations
Correlation effects in low-energy scattering of electron by a model negative ion. (A12). 471409
- coulomb excitation
Electron impact excitations of four-electron positive ions. (A14). 471696
- coulomb scattering
e-He* elastic scattering in a modified Coulomb-Glauber approximation. (A12). 462151
- cross sections
Measured cross sections for ionisation of C*, N* and O* ions with contribution due to excitation-autoionisation. (A12). [Data] 471328
- crossed fields
Electron neutral collision frequency from breakdown measurements in crossed electric and magnetic fields. (A12). 462148
- dissociation
Energy dependence of dissociative recombination below 0.08 eV measured with (electron-ion) merged-beam technique. (A12). [Data] 464041
- elastic scattering
e-He* elastic scattering in a modified Coulomb-Glauber approximation. (A12). 462151
- electron correlation
Some experiments on collisions between electrons and atoms or ions which investigate correlation effects. (A12). 485432
- electrons
Dielectron recombination of electrons colliding with ions. (A12). 474683
- energy spectra
On mutual angle and energy distributions near ionisation thresholds for electron-ion collisions. (A12). 477728
- excitation
Calculation of resonant effects in electron impact excitation of positive ions: Application to oxygen VII. (A12). 467288
Collisional excitation of beryllium-like ions by electrons. (A12). 467270
- Electron impact excitation of hydrogenic ions in a modified Coulomb-Glauber approximation. (A12). 488905
Electron-impact excitation of the beryllium isoelectronic sequence. (A12). 488807
Excitation of ions of the lithium isoelectronic sequence in the relativistic Coulomb-Born approximation. (A12). 477718
First-order Coulomb exchange approximation and electron impact excitation of ground-state hydrogenic ions to an arbitrary s state. (A12). 474657
- fcc lattices
The electron-ion interactions in metals. (A13). 459820
- frequency measurement
Electron neutral collision frequency from breakdown measurements in crossed electric and magnetic fields. (A12). 462148
- helium ions
First-order Coulomb exchange approximation and electron impact excitation of ground-state hydrogenic ions to an arbitrary s state. (A12). 474657
- ionization
Atomic model for neutral and singly ionized uranium. (A12; eV range). [Data] 471361
Electron-impact ionization-rate coefficients for lithiumlike nitrogen and oxygen. (A12, A14). 467294
- laser-radiation heating
Correspondence principle in multiphoton inverse bremsstrahlung. (A14). 481185
- oxygen ions
Measurements of cross sections for detachment of electrons from C- and O- ions by electron impact. (A12). [Data] 462142
- phase shift
The 1s epsilon p ³P triplet continuum and the photoionisation of the 1s2s ³S state of helium. (A12). [Data] 481048
- photons
Correspondence principle in multiphoton inverse bremsstrahlung. (A14). 481185
- recombination
Dielectron recombination of electrons colliding with ions. (A12). 474683
Dissociative recombination of N₂H⁺ and N₂D⁺. (A12). 464051
Energy dependence of dissociative recombination below 0.08 eV measured with (electron-ion) merged-beam technique. (A12). [Data] 464041
Microwave measurements of an electron-ion recombination coefficient in neon-helium mixtures. (A12). [Data] 492541
- resonance scattering
Stieltjes-moment-theory technique for calculating resonance width's. (A12). 463996
- scattering
Correlation effects in low-energy scattering of electron by a model negative ion. (A12). 471409
- trapping
Collision processes of electrons with molecular hydrogen ions. (A12). 488870
- ELECTRON-MOLECULE COLLISIONS:**
Fate of electrons with energies less than 100 eV. (A12). 485533
The interaction of swift electrons with liquid water. (C11, C55). 465924
- adiabatic approximation
Energy-modified adiabatic approximation for scattering theory. (A12). 464055
- adiabatic processes
Ab initio SCF polarisabilities and electron-molecule adiabatic polarisation potentials. (A12). 488920
- angular correlation
Electron-photon angular correlation in atomic physics. (A12). 483143

- aromatics**
Emission spectra and excitation processes of some benzene and naphthalene derivatives. (B14). 472537
- auger effect**
Energy and angular distributions of electrons from atoms and molecules by electron impact. (A12). 467279
- balmer lines**
Application of the 'helium excitation standard' procedure to some hydrocarbon Hsub(β) absolute emission cross section measurements. (A12). 483189
- carbon dioxide**
Close-coupling calculations with an INDOX/1s static potential, semiclassical exchange, and a semi-empirical polarisation potential for electron-CO₂ elastic scattering and rotational excitation. (A12). 474640
- cesium fluorides**
Low-energy electron scattering from strongly polar molecules. (A12). 467323
- deuterium**
Translational energies and emission cross sections of the excited hydrogen atom (HCl, DCl, H₂O, D₂O). (A12). 471378
- differential cross sections**
Differential cross sections for 35 keV electrons elastically scattered from NH₃. (A32). [Data] 481454
Elastic scattering of electrons by a hydrogen molecule at intermediate energies using optical eikonal theory. (A12). 483157
Interference in dissociative attachment cross sections of H₂ around 14 eV. (A12). [Data] 471408
- dissociation**
Dissociation of ethane by electron impact. (A12). 459775
Dissociative excitation of water molecule by electron impacts. (A12). 471337
Dissociative excitation of CO₂ by electron impact: Translational spectroscopy of O fragments. (A12). [Data] 464080
High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
Time-of-flight study of H(2S) and D(2S) produced by electron impact on H₂, D₂, and HD: Evidence for predissociation. (A12). 488892
- vibrational- and rotational-state dependence of dissociative attachment in e-H₂ collisions. (A12). 467335**
- elastic scattering**
Behavior of the eigenphase sum near a resonance. (A12). 463997
Close-coupling calculations with an INDOX/1s static potential, semiclassical exchange, and a semi-empirical polarisation potential for electron-CO₂ elastic scattering and rotational excitation. (A12). 474640
- Differential cross sections for 35 keV electrons elastically scattered from NH₃. (A32). [Data] 481454
Elastic scattering of electrons by a hydrogen molecule at intermediate energies using optical eikonal theory. (A12). 483157
Electron-polar-molecule scattering: quasiclassical close-coupling approximation. (A12). 488754
Impulse approximation to pion-helium and electron-hydrogen molecule collisions. (A33, A12; Scattering amplitudes, 85 and 206 MeV). 468369
L²-basis-set theory of electron-molecule scattering with vibrational and rotational coupling. (A12). 467227
Low-energy electron-molecule scattering: Comparison of coupled channel treatments of e-N₂ scattering at 13.6 eV using various approximations to the static and exchange potentials and an approximate polarization potential. (A12). 477813
Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
Semiclassical perturbation theory of electron²-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
Two-potential approach for electron-molecular collisions at intermediate and high energies; application to e-N₂ scatterings. (A12). 467180
Zero-point vibration in low-energy electron-molecule scattering theory. (A12). [Data] 474602
- electron attachment**
Angular distribution of negative ions formed in dissociative attachment. (A12). 488847
Electron attachment to perfluorocarbon compounds. I. C-C₆F₅, 2-C₆F₆, 1,3-C₆F₆, C-C₆F₅ and 2-C₆F₆. (A12). 467182
Electron attachment to perfluorocarbon compounds. II. C-C₃F₈, C-C₆F₁₀, C-C₆F₁₂, C₃F₈, and C₆F₁₀: Relevance to gaseous dielectrics. (A12). 467286
Temperature dependence of electron attachment to N₂O in the gas phase. (A12). 467308
Total ionization and electron attachment cross sections of CCl₃F₃ by electron impact. (A12). 483210
Vibrational- and rotational-state dependence of dissociative attachment in e-H₂ collisions. (A12). 467335
- electron capture**
Negative ions of polyatomic molecules. (A12; Resonance, anions, electron dissociative attachment, electron capture, potential energy, cross sections, yields, lifetime). 474569
- electron correlation**
Theoretical aspects of electron correlations in electron collisions. (A12). 485462
- electronic structure**
L² discretization of atomic and molecular electronic continua: moment, quadrature and J-matrix techniques. (A12). 483213
- emission spectra**
Molecular excitation and dissociation studied by the emission spectra excited by controlled electron impact. (A12). 467281
Spectroscopic study on electronic and ionic impacts of simple molecules with crossed-beam technique. (A12). 467333
- energy losses**
Electron impact study of the energy levels of trans-1,3-butadiene. (A12). 474574
- energy transfer**
SCF treatment of charge polarization effects in intermediate-energy electron scattering calculations with applications to N₂. (A12). 467284
- energy-level transitions**
Electronic spectroscopy of benzene and the fluorobenzenes by variable angle electron impact. (A10). [Data] 463869
Electronic spectroscopy of 1,3-cyclopentadiene, 1,3-cyclohexadiene and 1,3-cycloheptadiene by electron impact. (A12). 467201
Two-potential approach for electron-molecular collisions at intermediate and high energies; application to e-N₂ scatterings. (A12). 467180
- excitation**
Dissociative excitation of CO₂ by electron impact: Translational spectroscopy of O fragments. (A12). [Data] 464080
Emission spectra of the radical cations of difluorodiacetylene, perfluoropentadiyne-1,3, and perfluorohexadiyne-2,4 in the gas phase: A→X band systems and the lifetimes of the A states. (A12). 485388
Energy-modified adiabatic approximation for scattering theory. (A12). 464055
Excited electronic states of cyclohexene, 1,4-cyclohexadiene, norbornene, and norbornadiene as studied by electron-impact spectroscopy. (A12). 467200
Experiments on multiphoton free-free transitions. (A12). 488927
Inner shell excitation of atoms and molecules by electron impact with high energy resolution. (A12). 467292
Low energy electron scattering from methane. (B22). 490557
Semiclassical perturbation theory of electron-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
- excitation functions**
Optical excitation function of molecules by electron impact near threshold. (A12). 467203
- hydrogen**
Ab initio electron-molecule scattering theory including polarisation: vibrational and vibrational-rotational excitation of H₂. (A12). [Data] 474603
Electron-polarized-photon coincidence study of H₂(¹Σsub(g)-¹Πsub(u)) excitation. (A12). [Data] 474618
Translational energies and emission cross sections of the excited hydrogen atom (HCl, DCl, H₂O, D₂O). (A12). 471378
Zero-point vibration in low-energy electron-molecule scattering theory. (A12). [Data] 474602
- inelastic scattering**
Electron impact study of the 50 000 cm⁻¹ band of benzene. (A12). 488790
Electron-polar-molecule scattering: quasiclassical close-coupling approximation. (A12). 488754
Impulse approximation to pion-helium and electron-hydrogen molecule collisions. (A33, A12; Scattering amplitudes, 85 and 206 MeV). 468369
A Monte-Carlo simulation of the behaviour of electron swarms in hydrogen using an anisotropic scattering model. (A12). 474561
Semiclassical perturbation theory of electron-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
- inner-shell ionization**
Positive-ionization decay on the carbon K-shell excited negative-ion resonance in CO. (A12). 483236
- ionization**
Electron-impact ionization of Ar₂, ArKr, Kr₂, KrXe, and Xe₂. (A12). 488825
Experimental determination of absolute partial cross-sections of H₂ ionization by electron impact. (A12). 471339
High energy electron experiments. II. Binary and dipole (e,2e) methods. (A12). 485546
Laser-induced fluorescence measurement of the nascent rotational distribution of N₂(X'²Σsub(g')) formed by electron impact on N₂. (A12). 488746
M/sub 4,5/N/sub 4,5/X Auger electron spectra of iodine and xenon Many-body effects. (A12). 488745
Momentum distributions for the valence orbitals of hydrogen fluoride. (A12). 488773
Total ionization and electron attachment cross sections of CCl₃F₃ by electron impact. (A12). 483210
- oxygen**
Differential and integral cross sections for excitations to the electronic states below ionization limit in O₂ by electron impact. (A12). 471398
Differential and integral cross sections for electron impact excitation of O₂. (A12). [Data] 474673
Thermal electron attachment to O₂ as studied by a microwave cavity technique combined with a pulse radiolysis method. (B14). 472518
- polarizability**
Ab initio SCF polarisabilities and electron-molecule adiabatic polarisation potentials. (A12). 488920
- potential scattering**
Electron-molecule scattering in momentum space. (A12). 464073
- r matrix**
R-matrix calculations for electron-molecule scattering. (A12). 483146
R-matrix theory of atomic and molecular processes. (A12). 477714
Theory of vibrational excitation and dissociative attachment: an R-matrix approach. (A12). 488897

- resonance**
- Positive-ionization decay on the carbon K-shell excited negative-ion resonance in CO. (A12). 483236
- resonance scattering**
- Some aspects of resonance scattering of electrons on atoms and diatomic molecules. (A12). 467236
- Stieltjes-moment-theory technique for calculating resonance width's. (A12). 463996
- scaling laws**
- A scaling law for electron-polar molecule scattering. (A12). 471391
- scattering**
- Ab initio electron-molecule scattering theory including polarisation: vibrational and vibrational-rotational excitation of H₂. (A12). [Data] 474603
- threshold energy**
- Threshold phenomena in electron-molecule scattering: a non-adiabatic theory. (A12). 488791
- total cross sections**
- Total absolute electron scattering cross sections for SF₆ for incident electron energies between 0.5 and 100 eV including resonance structure. (A12). 467230
- trapping**
- Collision processes of electrons with molecular hydrogen ions. (A12). 488870
- vibrational states**
- The influence of long-range interaction on excitation of polar molecules and atoms by electrons. (A12). 463983
- ELECTRON-MUON INTERACTIONS:**
- elastic scattering**
- Polarization effects in the non-diagonal lepton processes. (A21). 493078
- weak interactions**
- On a possible effect of lepton weak interaction on electron-electron (muon) scattering. (A21). 475570
- ELECTRON-NEUTRON INTERACTIONS:**
- elastic scattering**
- Polarized-electron elastic scattering asymmetries in SU(2) x U(1). (A21). [Data] 464794
- structure functions**
- Structure functions momenta of deep inelastic electron-nucleon scattering. (A21). 472016
- ELECTRON-NUCLEON INTERACTIONS:**
See also ELECTRON-NEUTRON INTERACTIONS; ELECTRON-PROTON INTERACTIONS
- coupling constants**
- Higher-order induced axial-vector isoscalar neutral current in gauge theories. (A21). 486080
- deep inelastic scattering**
- High energy predictions in Q.C.D. (A21, A11; Parton model, wee partons, cut vertices, Wilson expansion). [Data] 489805
- Parametrization of structure functions of deep inelastic electron-nucleon scattering. (A21; parametrization). 478466
- Q² dependence of parton transverse momenta and deep-inelastic scattering. (A21, A11). 464854
- Simple description of electroproduction and muonproduction in asymptotically free gauge theories. (A21). [Data] 464853
- What do we learn from polarization measurements in deep-inelastic electron-nucleon scattering. (A21). 486008
- electroproduction**
- Measurements of shadowing in low mod(Q²) electroproduction on nuclei. (A22). 478520
- inelastic scattering**
- Comparison of inelastic electron and positron scattering cross sections on ¹²C and ²⁷Al. (A22). 483697
- neutral currents**
- Parity violation in atomic physics and neutral currents. (A21). 475530
- p invariance**
- Why all the fuss about bismuth. (A21). 462545
- structure functions**
- Parametrization of structure functions of deep inelastic electron-nucleon scattering. (A21; parametrization). 478466
- weak interactions**
- Polarised electron-hadron scattering and weak interaction theory. (A21). 475562
- ELECTRON-POSITRON COLLISIONS:**
- absorption**
- Profiles and absorption coefficients of positrons implanted in solids from radioactive sources. (A13). 489034
- angular correlation**
- Solvated positron chemistry. Competitive positron reactions with halide ions in water. (B14). 484091
- annihilation**
- Detection of nitrogen impurities in aluminium by positron annihilation. (A13). 483256
- On two-jet production of heavy quarks in the e⁺e⁻ annihilation. (A21). 493063
- Positron annihilation in nonmetallic solids. (A13). 477862
- Positron annihilation studies in N-(p-hexyloxybenzylidene)-p-toluidene (HBT). (A13). 488953
- Positron annihilation in Ni fine particles. (A13, B22). 489032
- Positron annihilation in ribonuclease. (A13). 483251
- Profiles and absorption coefficients of positrons implanted in solids from radioactive sources. (A13). 489034
- deep inelastic scattering**
- QCD predictions for deep inelastic scattering on an electron. (A21). 475589
- jet model**
- Jet production in e⁺e⁻ collisions to order α³ and α⁴ and including QCD corrections. (A21). 475588
- particle production**
- Evidence for a relativistic electron-pair model of nuclear particles. (A21). 472051
- solvated electrons**
- Solvated positron chemistry. Competitive positron reactions with halide ions in water. (B14). 484091
- ELECTRON-POSITRON INTERACTIONS:**
- Charm and heavy lepton production by e⁺e⁻ interactions. (A22).**
- 493114
- A contact-term model for e⁺e⁻ → nanti NA. (A21). 460161
- First observation of photon-photon interactions at DORIS. (A22). 475655
- First observation of hadron production in e⁺e⁻ collisions at 13 and 17 GeV cms energy with the PLUTO detector at PETRA. (A22). 478528
- Gauge theories and leptons. (A22, A21). 489985
- Jet analysis of the UPSILON (9.46) decay into charged hadrons. (A22). 478529
- Quark-antiquark colliding beam machines. (A22, E16). 489931
- angular distribution**
- Physical features of secondary particle distributions in e⁺e⁻ → heavy particle pair. (A21). 462535
- annihilation**
- Angular distributions of hadron jets in e⁺e⁻ annihilation from QCD: γ-Z interference. (A21). [Data] 481414
- Angular energy flow in perturbative QCD. (A21, A11). 483623
- Anomalous electron-muon and electron-hadron production in electron-positron annihilation. (A21; Branching ratio). [Data] 478468
- Azimuthal correlations in the hadronic decay of heavy-quark-antiquark bound states produced by e⁺e⁻ colliding beams. (A21). 489857
- Bound states and asymptotic limits for quantum chromodynamics in two dimensions. (A21, A11). 489744
- bq-bar resonance in e⁺e⁻. (A21). 489865
- Can we test quantum chromodynamics in e⁺e⁻ annihilation at available energies. (A21, A11). 464849
- Charmed meson production by e⁺e⁻ annihilation. (A22; Angular distribution, branching ratio). 468213
- Charmed-baryon production in electron-positron annihilation. (A21). 475612
- Comments on the bremsstrahlung model of Brodsky and Gunion. (A21). 489763
- Comparison of 1γ and 2γ pair annihilation in strong magnetic fields. (A11, A15). 467143
- Corrections of the Sterman-Weinberg jet formula. (A21). 478507
- Cross sections and event topologies in e⁺e⁻ → annihilation at 13 and 17 GeV observed with the PLUTO-detector. (A22). [Data] 464882
- Current investigations in electron-positron annihilation. (A21). 478408
- D meson production in e⁺e⁻ annihilation. (A22; 3.7 to 7.0 GeV, total cross section, branching ratio). [Data] 493111
- Deuteron electromagnetic form factor: Data analysis and asymptotic behavior. (A21, A11). 489851
- Dispersion theory for the e⁺e⁻ → rhoepsilon transition form factors. (A21). 486067
- e⁺e⁻ annihilation. (A22; Review). 460229
- e⁺e⁻ annihilation into hadrons below 2 GeV test of QCD predictions. (A21, A11). 483634
- Electrons and kaons in charmed particle decays. (A22; Branching ratio, 3.9 to 7.4 GeV/c). [Data] 486136
- Energy correlations in electron-positron annihilation in quantum chromodynamics: Asymptotically free perturbation theory. (A21, A11). 486014
- Event shapes in e⁺e⁻ annihilation. (A21). 468056
- Experimental review of beam polarization in high energy e⁺e⁻ storage rings. (E16, A21). 491665
- Experimental review of the physics at the e⁺e⁻ collision rings beyond 3 GeV. (A22; 25 ref.). 464900
- Experimental status of charm in electron-positron annihilations. (A22). 460240
- Experimentation at LEP. (E16, A20). 470426
- First observation of hadron production in e⁺e⁻ collisions AT 13 and 17 GeV CMS energy with the pluto detector at PETRA. (A22). [Data] 464881
- Four-jet production in e⁺e⁻ annihilation. (A21, A11). 483614
- Gluon fragmentation functions from quark jets. (A21, A11). 483667
- Hadronic cross sections study in e⁺e⁻ collisions from 1.350 GeV to 2.125 GeV. (A22). 483688
- Hadrons and quarks in high energy collisions. (A22, A21). 464916
- Higgs scalar in heavy-vector-meson decays. (A21, A11). 464787
- High energy predictions from perturbative Q.C.D. (A11, A21). 488681
- High energy predictions in Q.C.D. (A21, A11; Parton model, wee partons, cut vertices, Wilson expansion). [Data] 489805
- High-energy inclusive annihilation processes. II. Quantum chromodynamics. (A21, A11). 489823
- High-energy inclusive annihilation processes. I. Physical picture and (phi)³ theory. (A21, A11). 489822
- How to measure parity violating effects in e⁺e⁻ → tau⁺tau⁻ annihilation experiments. (A21). 478428
- Indications of bb- production and decay at PETRA. (A21). [Data] 472017
- Jet invariant mass in quantum chromodynamics. (A21). 471990
- Jets from eanti e → γγ → qanti q. (A21). 478460
- Jets in e⁺e⁻ annihilation. (A22). [Data] 489957
- Measurement of leptonic branching ratios of the UPSILON(9.46). (A22). [Data] 475653
- Measuring the spin of the gluon in e⁺e⁻ annihilation. (A21). 468053

- A method of three-jet analysis in e^+e^- annihilation. (A21). 481431
 Multilepton final states and the weak interactions of the fifth quark. (A21). 475623
 Multileptons and the structure of weak decays of bottom mesons. (A21). 478409
 Neutral energy production in e^+e^- annihilation. (A22; Cross sections). [Data] 486153
 New results on e^+e^- annihilation from DASP. (A22). [Data] 489954
 Physical features of secondary particle distributions in $e^+e^- \rightarrow$ heavy particle pair. (A21). [Data] 481353
 Possible signature of charged Higgs particles in high energy e^+e^- annihilation. (A21). 468032
 Production of n -bar's and Sigma-bar-'s in e^+e^- annihilations. (A22). 486137
 Properties of hadron final states in e^+e^- annihilation at 13 GeV and 17 GeV center of mass energies. (A22; Tasso collaboration). 468170
 Properties of hadron final states in e^+e^- annihilation at 13 GeV and 17 GeV center of mass energies. (A22). 483687
 Quantum chromodynamics and jets in e^+e^- . (A21). [Data] 483647
 The reaction $e^+e^- \rightarrow \mu^+\mu^-$ (or $\tau^+\tau^-$) with two neutral weak bosons at LEP energies. (A21). 468039
 Recent results from DELCO. (A22). [Data] 489939
 Recent results from DASP on e^+e^- annihilation. (A22). [Data] 489991
 Recent results on the PLUTO-collaboration. (A22). [Data] 489925
 Recent results on e^+e^- annihilation from PLUTO at DORIS. (A22; Preliminary results 3.60 to 5.0 GeV). 475680
 Single-lepton spectra from anti $b\bar{b}$ and anti $t\bar{t}$ quark production in e^+e^- annihilation. (A21). 478403
 Soft-pion production in e^+e^- annihilations. (A21). 464744
 Some first results from the Mark II at SPEAR. (A22; Branching ratio, cross sections). 493093
 Spin correlations in the anti $a\bar{a} \rightarrow \phi$ (Z) \rightarrow anti b anti b resonance reactions. (A21). 464739
 Spin forces in charmonium spectroscopy. (A21). 464785
 Spin structure of hadronization products. (A21). 471989
 Tests for planar events in e^+e^- annihilation. (A21). 471997
 Tests of Yang-Mills couplings with $e^+e^- \rightarrow W^+W^-\mu$ and $e^+e^- \rightarrow e^+e^-W^+W^-$. (A21). [Data] 481411
 The three-gluon vertex of QCD. (A21, A11). 483654
 Transverse momentum and angular distributions of hadrons in e^+e^- jets from QCD. (A21). 472018
 Transverse quark polarization in large $P/\text{sub } T/$ reactions and e^+e^- jets. (A21, A11). 489859
 Transverse quark polarization in large- $p/\text{sub } T/$ reactions, e^+e^- jets, and leptonproduction: A test of quantum chromodynamics. (A21, A11). 468089
 W^+W^- and Z^0Z^0 pair production in e^+e^- , pp, and p-barpp colliding beams. (A21, A11). [Data] 464763
 Weak neutral current effects in the $e^+e^- \rightarrow N^* \text{ anti } N^*$ process. (A21). 489720
 Zero-mass limit for a class of jet-related cross sections. (A21, A11). 489889
- antineutrinos**
 Neutrino form-factors in two-dimensional approximation of quantum electrodynamics. (A21). 486076
- bhabha scattering**
 Coulomb interference in $e^+e^- \rightarrow e^+e^-$ near the Z^0 pole. (E16, A22). 484864
- charged particle detection**
 An explanation for Drell ratio R asymptotically equals 5.5, 1. (A21). [Data] 481357
- cross sections**
 Comparison of 1γ and 2γ pair annihilation in strong magnetic fields. (A11, A15). 467143
 Cross section of the reaction $e^+e^- \rightarrow \pi^+\pi^-\pi^+$ for center of mass energies from 890 to 1100 MeV. (A22). 478541
 From Higgs production in positron-electron annihilation the number of neutrinos can be determined. (A21). 478488
 Recent results from DASP on e^+e^- annihilation. (A22). [Data] 489991
- deep inelastic scattering**
 QCD predictions for deep inelastic scattering on an electron. (A21). 489818
- differential cross sections**
 Elastic $e^+e^-(e^-e^-)$ scattering with polarized beams. (A21). [Data] 475584
- elastic scattering**
 Production of jets and single particles at large transverse momentum in photon-photon collisions. (A21, A11). 475534
- electromagnetic interactions**
 Radiative corrections in photon-photon collisions induced by e^+e^- or e^-e^- processes. (A21, A11). 464765
 Test of quantum electrodynamics at satsup $1/2\alpha t < 13$ and 17 GeV. (A22, A11). 486117
- gamma radiation**
 Observation of an excess of events in e^+e^- annihilations into neutral final-states leading to three electromagnetic showers at 10 GeV. (A22). 475672
- gluons**
 Results from DASP on e^+e^- annihilation between 3.1 and 5.2 GeV. (A22). [Data] 475660
- hadrons**
 Measuring the spin of the gluon in e^+e^- annihilation. (A21). 468053
 DESY: physics from PETRA. (A22). 478516
- heavy leptons**
 Study of heavy-lepton polarization in e^+e^- annihilation at the Z^0 pole. (A21). 468069
- higgs bosons**
 Possible signature of charged Higgs particles in high energy e^+e^- annihilation. (A21). 468032
 Test of Higgs boson nature in $e^+e^- \rightarrow \text{HHZ}$. (A21). 483644
- inclusive interactions**
 D meson production in e^+e^- annihilation. (A22; 3.7 to 7.0 GeV, total cross section, branching ratio). [Data] 493111
 Electrons and kaons in charmed particle decays. (A22; Branching ratio, 3.9 to 7.4 GeV/c). [Data] 486136
 Forward-backward asymmetry in $e^- + e^+ \rightarrow q + q\text{-bar} \rightarrow \pi, K, D, \dots, + X$. (A21). 486084
 High energy predictions from perturbative Q.C.D. (A11, A21). 488681
- intermediate bosons**
 High energy predictions in Q.C.D. (A21, A11; Parton model, wee partons, cut vertices, Wilson expansion). [Data] 489805
 Inclusive production of D mesons in e^+e^- annihilation. (A21). 493064
 Neutral energy production in e^+e^- annihilation. (A22; Cross sections). [Data] 486153
 Preliminary results from the Mark II detector. (A22; Transverse momentum, cross sections, branching ratio). [Data] 489980
- intermediate vector bosons**
 Polarization amplitudes for $e^+e^- \rightarrow W^+W^-$ and $e^+e^- \rightarrow ZZ$. (A21). [Data] 475563
 The reaction $e^+e^- \rightarrow \mu^+\mu^-$ (or $\tau^+\tau^-$) with two neutral weak bosons at LEP energies. (A21). 468039
- jet model**
 Study of heavy-lepton polarization in e^+e^- annihilation at the Z^0 pole. (A21). 468069
 Tests of the single Z-boson hypothesis in some purely leptonic processes. I. (A21). 475548
 Tests of the single Z-boson hypothesis in some purely leptonic processes. II. (A21). 475549
 Zedology. (A21). 468052
- kaons minus**
 Detection of events with jet structure. (E41, E16). 470892
 Four-jet production in e^+e^- annihilation. (A21, A11). 483614
 Hadron distributions in quark jets. (A21). 478454
 Improved Sterman-Weinberg jet formula. (A21). 489738
 Jet structure in e^+e^- meson production. (A21, A11). 486066
 A method of three-jet analysis in e^+e^- annihilation. (A21). 486112
 The transverse momentum profile of a quark jet. (A21). 475556
- kaons plus**
 Recent results at ADONE. (A22). 489920
- lectures**
 The charged kaon mass measurement. (A22). 468162
- muon pairs**
 The charged kaon mass measurement. (A22). 468162
 Recent experiments at DESY. (A22). 486140
- neutral currents**
 Hard photon correction to $e^+e^- \rightarrow \mu^+\mu^-$ and effects of neutral weak current. (A21). [Data] 481377
- neutral-current interactions**
 How to measure quark helicities in $e^+e^- \rightarrow$ hadrons. (A20). 468002
- p invariance**
 Weak-electromagnetic interference. (E16, A21). 491659
- pair production**
 How to measure parity violating effects in $e^+e^- \rightarrow \tau^+\tau^-$ annihilation experiments. (A21). 478428
- particle kinematics**
 Indications of b anti b production and decay at PETRA. (A22). 489910
- particle production**
 μ pair production in polarized e^+ -polarized e^- -collisions and $e^+e^-(\mu^+\mu^-)\text{-psi}/$ interaction. (A21). 489838
- photons**
 Jet structure in e^+e^- meson production. (A21, A11). 486066
 Measurement of the relative total hadronic cross section R at PETRA. (A22). 486118
 Neutrino counting in e^+e^- collisions. (A21). 475564
 Transverse quark polarization in large- $p/\text{sub } T/$ reactions, e^+e^- jets, and leptonproduction: A test of quantum chromodynamics. (A21, A11). 468089
 Two-photon production processes at high energy. III. (A21). 464867
- pionization**
 Testing QCD: Direct photons in e^+e^- collisions. (A21). 460187
- quantum chromodynamics**
 $e^+e^- \rightarrow \phi \pi$ and $\gamma N \rightarrow \phi \pi N$: their experimental and theoretical interest. (A21, A22). 478424
- quantum electrodynamics**
 Hadronic cross sections study in e^+e^- collisions from 1.350 GeV to 2.125 GeV. (A22). 483688
- quantum electrodynamic**
 Transverse quark polarization in large $P/\text{sub } T/$ reactions and e^+e^- jets. (A21, A11). 489859
- q resonances**
 $e^+e^- \rightarrow \phi \pi$ and $\gamma N \rightarrow \phi \pi N$: their experimental and theoretical interest. (A21, A22). 478424
- quantum chromodynamics**
 QCD predictions for deep inelastic scattering on an electron. (A21). 489818
- quantum electrodynamic**
 DESY: physics from PETRA. (A22). 478516
 Weak interaction effects in $e^+e^- \rightarrow \gamma\gamma$. (A21). 475536

- quark-antiquark interactions**
Enhanced flavour charge in the integer quark charge model. (A21). 483635
- quarks**
Indications of b anti b production and decay at PETRA. (A22). 489910
Jets from $e^+e^- \rightarrow \gamma\gamma \rightarrow$ quanta q . (A21). 478460
Weak mixing and CP violation involving heavy quarks and possible measurements in e^+e^- experiments. (A21). 468011
- radiation detection**
Detection of events with jet structure. (E41, E16). 470892
- scaling laws**
Violation of Bjorken scaling, fraction of momentum fluctuation and range of timelike photon in $e^+e^- \rightarrow h^+x$ reaction. (A21). [Data] 475529
- spin**
Comment on polarized fragmentation functions. (A21). 486033
- strong interactions**
Testing strong interaction theories. (A11). 467037
- structural chemical analysis**
Positron annihilation in carbon structures. (A13). 462159
- structure functions**
An explanation for Drell ratio R asymptotically equals 5.5, 1. (A21). [Data] 481357
- tau particles**
QED background to heavy lepton production in e^+e^- annihilation. (A21). 475578
Use of tau hadronic decay modes to study polarization near the Z^0 pole at LEP. (A21). 468016
- total cross sections**
Experimental review of the physics at the e^+e^- collision rings beyond 3 GeV. (A22; 25 ref.). 464900
Jets in e^+e^- annihilation. (A22). [Data] 489957
Measurement of the relative total hadronic cross section R at PETRA. (A22). 486118
New results on e^+e^- annihilation from DASP. (A22). [Data] 489954
Recent results on the PLUTO-collaboration. (A22). [Data] 489925
Recent results on e^+e^- annihilation from PLUTO at DORIS. (A22; Preliminary results 3.60 to 5.0 GeV). 475680
- unified gauge models**
Weak interactions beyond the Z pole(s). (A21). 468059
- upsilon resonances**
Recent experiments at DESY. (A22). 486140
- vector mesons**
Polarization effects in the $e^+e^- \rightarrow V + X$ inclusive process in the parton model. (A21). 468093
- weak interactions**
Weak interaction effects in $e^+e^- \rightarrow \gamma\gamma$. (A21). 475536
Weak-electromagnetic interference. (E16, A20). 470376
- weak neutral currents**
Weak neutral current effects in the $e^+e^- \rightarrow N^* \text{ anti } N^*$ process. (A21). 489720
- ELECTRON-PROTON INTERACTIONS:**
Determination of pion structure functions from the $ep \rightarrow epX$ reaction. (A21). 468116
- cross sections**
Cross sections and possible resonances in pp -bar electroproduction. (A22). 489952
- deep inelastic scattering**
Analysis of nucleon structure function moments from electron and muon data and critical tests of asymptotic freedom. (A21). 471993
Charge retention in deep-inelastic electroproduction. (A21). 478438
Observation of parity violation in polarized electron scattering. (A21; 19.4 and 22.2 GeV, preliminary analysis, asymmetry). 468136
- On the necessity of taking into account the contribution of multiphoton exchanges into electron-proton deep inelastic scattering. (A21). 486095
- Phenomenological determination of electroproduction structure functions. (A21, A11). 486038
- Polarized electron-polarized proton scattering experiments at SLAC. (E16, A22). 491664
- differential cross sections**
Investigation of elastic electron-proton scattering in the region of squared momentum transfers $0.12F^2 \leq q^2 \leq 0.5 F^2$. (A22). 493095
- elastic scattering**
Polarized-electron elastic scattering asymmetries in $SU(2) \times U(1)$. (A21). [Data] 464794
- electroproduction**
Cross sections and possible resonances in pp -bar electroproduction. (A22). 489952
Spectrometer study of phi-meson electroproduction. (A22). 489940
- exclusive interactions**
Analysis of the four pion exclusive channel in inelastic electron-proton scattering. (A22). 468191
Exclusive rho production by virtual photons. (A22). [Data] 464874
- final-state interactions**
Analysis of the four pion exclusive channel in inelastic electron-proton scattering. (A22). 468191
Electroproduction of omega mesons. (A22). 468196
- inelastic scattering**
Comments on the bremsstrahlung model of Brodsky and Gunion. (A21). 489763
- neutral-current interactions**
Weak-electromagnetic interference. (E16, A21). 491659
- pair production**
 μ -pair production by virtual Compton scattering in e^+p collisions. (A21). 481406
- photons**
On the necessity of taking into account the contribution of multiphoton exchanges into electron-proton deep inelastic scattering. (A21). 486095
- structure functions**
Analysis of nucleon structure function moments from electron and muon data and critical tests of asymptotic freedom. (A21). 471993
Structure functions momenta of deep inelastic electron-nucleon scattering. (A21). 472016
- ELECTRON-RING ACCELERATORS:**
beam dynamics
Beam trapping experiments on the University of Maryland Electron Ring Accelerator. (E16). 477031
Energy recovery and power stabilization of pulsed electron beams in Marx generator circuits. (E16). 476942
- betatron oscillations**
Fields excited at the beam injection into an adgeзатор and estimation of their effect on transverse motion of beam particles. (E16). 494776
- cathodes**
Properties of cathode plasma in the diode with magnetic insulation. (E16). 476962
- computer codes**
Application of a remote display station for calculating the magnetic system of an adhesor. (E51, E16). 466870
- e codes**
Program for calculation of the magnetic system of a heavy-ion collective accelerator. (F51, E16). 495270
- electric impedance**
Analog method for measurement of longitudinal coupling impedance between electron ring and chamber. (E16). 494786
- electromagnetic fields**
Fields excited at the beam injection into an adgeзатор and estimation of their effect on transverse motion of beam particles. (E16). 494776
- electron rings**
Ion acceleration by electron rings. (E16). 461557
- focusing**
Study of 200KA REB focussing depending on the Kalmar diode geometry. (E16). 476983
- heavy ion accelerators**
Transverse stability in an electron ring accelerator. (E16). 477002
- instability**
Collective ion acceleration with electron rings. (E16). 473723
- ion beams**
Transverse stability in an electron ring accelerator. (E16). 477002
- ion rings**
High-current medium-energy ion accelerator with a hollow electron beam. (E16). 487887
- Calculation of ion storage in electron beams with account of ion-ion interactions. (E16). 494830
- magnetic fields**
Calculation of alternating magnetic fields in an adgeзатор of composite wall configuration. (E16). 491590
- Technique for quasi-stationary shielded magnetic fields calculation and its application to the problem of magnetic field shaping in the adgeзатор of a heavy ion accelerator. (E16). 491558
- magnetic insulation**
Properties of cathode plasma in the diode with magnetic insulation. (E16). 476962
- o codes**
Program for calculation of the magnetic system of a heavy-ion collective accelerator. (F51, E16). 495270
- oscillation modes**
Numerical study of nonlinear effects in the electron-ion instability in a particle ring. (E16). [Data] 473689
- power density**
Study of 200KA REB focussing depending on the Kalmar diode geometry. (E16). 476983
- two-stream instability**
Numerical study of nonlinear effects in the electron-ion instability in a particle ring. (E16). [Data] 473689
- ussr**
Development of charged particle accelerators. (E16). 487936
- ELECTRONIC CIRCUITS:**
See also COINCIDENCE CIRCUITS; COMPARATOR CIRCUITS; COUNTING CIRCUITS; DELAY CIRCUITS; DIGITAL CIRCUITS; EQUIVALENT CIRCUITS; GATING CIRCUITS; INTEGRATED CIRCUITS; LOGIC CIRCUITS; MICROELECTRONIC CIRCUITS; MULTIVIBRATORS; PRINTED CIRCUITS; PULSE CIRCUITS; PULSE DISCRIMINATORS; PULSE SHAPERS; SWITCHING CIRCUITS; TIMING CIRCUITS; TRANSISTOR SWITCHING CIRCUITS; TRIGGER CIRCUITS
Energy-dependent losses in pulsed-feedback preamplifiers. (E41). 492128
- e codes**
ECAP-370/IFIN - A program for the analysis of electrical and electronic circuits. (F51). 488519
- phototubes**
Circuit for maintaining constant phototube current in polarization modulation spectroscopy. (E13). 470339
- physical radiation effects**
Fabrication and application of amorphous semiconductor devices. (E43). 482894
- research programs**
Instrumentation and Controls Division biennial progress report, September 1, 1976 - September 1, 1978. (E41). 470948
- specifications**
Dynamic linearization system for a radiation gauge. (D22, E17; Patent). 476865
Electronic reduction of high speed mass spectral data. (B11). 486527

ELECTRONIC DATA PROCESSING:

See DATA PROCESSING

ELECTRONIC EQUIPMENT:

See also ANALOG-TO-DIGITAL CONVERTERS; COUNTING RATEMETERS; DC AMPLIFIERS; DIGITAL-TO-ANALOG CONVERTERS; HIGH-VOLTAGE PULSE GENERATORS; KLYSTRONS; LINEAR RATEMETERS; MAGNETRONS; MASERS; MICROWAVE AMPLIFIERS; MICROWAVE EQUIPMENT; MICROWAVE TUBES; MULTI-CHANNEL ANALYZERS; MULTIPLEXERS; OSCILLATORS; POWER AMPLIFIERS; POWER SUPPLIES; PREAMPLIFIERS; PULSE ANALYZERS; PULSE CONVERTERS; PULSE GENERATORS; SCALERS; SQUID DEVICES; TRANSISTOR OSCILLATORS

- background noise**
Electrical interference measurement on neutron control equipment for nuclear power generating station. (E24, E42). 466637
- calibration**
Calibration of optical particle-size analyzer. (E42; DOE patent). 492212
- cleaning**
Effect of various gas mixtures on plasma cleaned ceramics. Final report. (E13; Electronic components). 473638
- performance**
Measurement of the electromagnetic environment at Primaerkreislauf. (E42, E32). 474160
- physical radiation effects**
Radiation effects. Engineering handbook (methods of improving the radiation tolerance of electronics in space vehicles). Final report. (E43). 480818
- quality control**
Quality cost system in electronics. (F11, E22; Nuclear power plants). 474302
- radiation hardening**
Radiation effects. Engineering handbook (methods of improving the radiation tolerance of electronics in space vehicles). Final report. (E43). 480818
- radiation protection**
The historical growth and development of radiation control in South Africa. (F23). 488430
- research programs**
E-Division semiannual report. Progress report, July 1 - December 31, 1978. (E13). 494702
- specifications**
Gamma ray dose-rate measurement using a diamond radiation detector. (E41). 470903
Some electronic aspects of energy measurements with solid-state detectors. (E41). 461826
- ELECTRONIC STRUCTURE:**
(For electron configuration in atoms and molecules, and electron band structure in solids.)
See also K SHELL; L SHELL; M SHELL
- born approximation**
Linear augmented plane wave method for self-consistent calculations. (A13). [Data] 462244
- bound state**
The Compton profile dependence on 'off-mass shell' and binding effects for bound electrons. (A12). 464062
- compton effect**
Determination of Compton profiles in the metal-hydrogen systems VHx, VDX and PdHx. (A13). 489015
- computer codes**
Relativistic atomic structure calculations. (A12). 483170
- configuration interaction**
An m-representation approach to atomic structure: application to C I, N II, O III, F IV and Ne V. (A12). 471365
- The manifestation of intershell interactions in the process of atomic photoionization. (A12). 474546
- electromagnetic fields**
Excited atomic and molecular states in strong electromagnetic fields. (A12). 483139
- functionals**
Orbital functional for exchange and correlation: self-interaction correction to the local density approximation. (A12). 488883
- intermetallic compounds**
On the electronic structure of A15 materials. (A17, B22). 471949
- molecular orbital method**
Molecular orbital theory and its application to electron spectroscopy. (A13, A12). [Data] 489050
- multiple scattering**
Cluster methods to study the electronic structure of condensed matter. (A13). 474805
- propagator**
Alternative inner projections of the superoperator resolvent. (A12). 463952
- racah coefficients**
Racah algebra and Talmi transformation in the theory of multi-centre integrals of Gaussian orbitals. (A12). 471335
- random phase approximation**
Application of the random phase approximation (RPA) for the calculation of transition moments among excited states of atomic systems. (A12). 471402
- relativistic range**
Relativistic atomic structure calculations. (A12). 483170
- synchrotron radiation**
Synchrotron radiation and its applications to chemistry. (E16, B12). 487922
- talmi integrals**
Racah algebra and Talmi transformation in the theory of multi-centre integrals of Gaussian orbitals. (A12). 471335

transition amplitudes

- Application of the random phase approximation (RPA) for the calculation of transition moments among excited states of atomic systems. (A12). 471402
- type-II superconductors**
On the electronic structure of A15 materials. (A17, B22). 471949
- valence**
Generalized perturbation theory of effective valence shell hamiltonians. (A12). 467307
- variational methods**
Series solutions and the variational principle. (A12). 467293
Variational cellular method for crystals. (A13). 471453
- ELECTRONS:**
See also PROMPT ELECTRONS; RUNAWAY ELECTRONS; SOLVATED ELECTRONS; TRAPPED ELECTRONS
- acceleration**
Debye-length discrimination of nonlinear laser forces acting on electrons in tenuous plasmas. (A14). 478000
Electron acceleration by inhomogeneous radio-frequency field. (A14). 464376
- binding energy**
Correlation between Ps reaction rate constant and LUMO energy of protonated nitrogen-containing heterocyclic organic molecules. (A13). [Data] 492678
Re-study of the electron binding energies of an iron core by photoelectron spectroscopy and study of line asymmetry. (A13). 471469
- biological radiation effects**
The scrapie agent: evidence against its dependence for replication on intrinsic nucleic acid. (C11). [Data] 463031
- bremsstrahlung**
Asymmetry of the coherent bremsstrahlung by polarized electrons. (A11). 492474
Theory of relativistic electron and positron bremsstrahlung in crystals. (A13). 492552
Theory of relativistic positron and electron bremsstrahlung under channelling conditions. (A13). 471585
- carcinogenesis**
Tumorigenic action of beta, proton, alpha, and electron radiation on the rat skin. Progress report, August 1, 1977 - January 31, 1979. (C14). 461031
- charged-particle transport**
Simulation of the low-energy electron transport in liquid water; application to microdosimetry and radiobiology. (C11, C55). 465931
- chemical reaction yield**
Paramagnetic species in irradiated organic glasses. 2. Formation and decay of tetramethylethylene radical cations and effects of some additives on free-radical yields. (B14). 465460
- correlations**
Correlation between Ps reaction rate constant and LUMO energy of protonated nitrogen-containing heterocyclic organic molecules. (A13). [Data] 492678
- cosmic ray propagation**
Interplanetary propagation of flare-associated energetic particles. (A15). 460096
- cosmic showers**
Arrival-time distribution of muons and electrons in large air showers observed at 5200m above sea level. (A15). 489389
- coupling**
Weak neutral-current interactions. (A21). 460160
- depth dose distributions**
Magnetic effects in cellular and molecular systems. (C11). 476499
- desorption**
Ion and electron desorption of neutral molecules from stainless steel (304). (A14). 475001
- diamonds**
Energy losses of ultrarelativistic electrons in a diamond crystal. (A32). 468237
Radiation of ultrarelativistic electrons in the oriented diamond crystal. (A32). 468238
- dielectric materials**
Application of the high-order perturbation theory to the problem of fast electron transport through dielectrics in an external electric field. (A32). 464941
- differential cross sections**
Eikonal approximation calculations of e-H and e-He scattering using an energy-dependent polarization potential. (A12). 459767
- distribution**
An experimental determination of the parallel electron velocity distribution during strong turbulence. (A14). [Data] 489348
- dosimetry**
Dosimetry studies related to irradiation of some insects with ⁶⁰Co γ-rays and 1.0 MeV electrons, at different dose rates. (D15, C42). 494663
- elastic scattering**
Elastic scattering of intermediate energy electrons by heteronuclear molecules. (A12). 488843
- electrodynamics**
Radiation reaction in nonrelativistic quantum theory. (A21, A11; Review). 478495
- electromagnetic radiation**
Effect of a longitudinal wave field on the autoresonance movement of electrons. (E16). 476956
Stimulated transition effect in space-homogeneous nonstationary media. (A11). 467011
- electroproduction**
Recent results on e⁺e⁻ annihilation from PLUTO at DORIS. (A22; Preliminary results 3.60 to 5.0 GeV). 475680

- energy conservation**
Theory of electron energy confinement in tokamaks. (A14). 475078
- energy dependence**
Eikonal approximation calculations of e-H and e-He scattering using an energy-dependent polarization potential. (A12). 459767
- energy losses**
Determination of W values and backscatter coefficients for slow electrons in air. (A32). 460275
- Electron energy loss spectroscopy of pristine and radiation damaged polyethylene. (B25). 487045
- Re-examination of the intensity distribution in the electron energy-loss spectrum of ethylene. (A32). [Data] 464932
- TIGERP. (A32, A12; Monte Carlo method). 490026
- energy spectra**
Energy spectrum of cosmic ray electrons between 9 and 300 GeV. (A15). [Data] 464643
- High energy interactions and cosmic ray components in the atmosphere. (A15, A21). 489542
- Measurement of fast-electron energy spectra and preheating in laser-irradiated targets. (A14). 485731
- equations of motion**
Radiation reaction in nonrelativistic quantum theory. (A21, A11; Review). 478495
- ev range 10-100**
Debye-length discrimination of nonlinear laser forces acting on electrons in tenuous plasmas. (A14). 478000
- excitation**
Study of single-electron excitations by electron microscopy. (A32). [Data] 468241
- extended particle model**
Dirac's extended electron model. (A21). 464796
- field theories**
Fundamental length hypothesis in a gauge theory context. (A21). 464813
- geomagnetic field**
Coulomb collision-induced photoelectron trapping by the geomagnetic field and electron gas heating in the plasmasphere. (B33). 472877
- gyromagnetic ratio**
Experimental test of special relativity from a high- γ electron $g-2$ measurement. (A22). 489934
- inelastic scattering**
High resolution inelastic electron scattering and the excitation of magnetic dipole and quadrupole states in nuclei. (A34). 465132
- ionization**
Low pressure cloud chamber studies. 1. Methods of analysis of ionisation distributions. (C11, C55). 465879
- landau damping**
Cold, electrostatic, ion-cyclotron waves and ion-ion hybrid resonances. (A14). 485790
- lepton-hadron interactions**
Scattering of polarized leptons by hadrons and an anapole momentum of leptons and quarks. (A21). 468130
- lifetime**
Leptons - what are they. (A22). 489974
- magnetic fields**
Expansion parameter of the vertex function in the two-dimensional approximation of quantum electrodynamics. (A11). 474523
- Polarization operator of an electron-positron gas in a stationary external magnetic field. (A11). 474500
- Radiative corrections to the electron mass operator in the two-dimensional approximation of quantum electrodynamics. (A11). 485336
- magnetic moments**
Connection between the spin magnetic moment of an electron and the Dirac monopole. (A11). 488718
- mass**
Leptons - what are they. (A22). 489974
- Natural approximate Lepton symmetries. (A21; SU(2) x U(1) model, muon number conservation, rate). 478404
- Symmetries and the mass ratio of the electron and muon. (A21). 478453
- mass difference**
Fundamental length hypothesis in a gauge theory context. (A21). 464813
- metals**
A simple method of deriving range of electrons in solids from knowledge of reflected primary electrons. (A32). [Data] 460266
- mev range 01-10**
Direct measurements of $f(z)$ for fast electrons. (C11, C55). 465878
- moessbauer effect**
Depth selection by means of scattered electrons: Monte Carlo calculation of energy distribution. (A13). 471532
- multiple scattering**
Range of application of the Gaudsmith-Saunderson multiple scattering theory for calculations of electron transmission through the matter. (A32). 493128
- neutral currents**
Weak neutral-current interactions. (A21). 460160
- ondulator radiation**
Correction of electron motion in a magnetic undulator. (E16). 480485
- p invariance**
Anapole moments of leptons and quarks as a source of p-odd lepton-hadron interaction. (A21). 468131
- pair production**
Screening corrections in electron pair production by intermediate- and low-energy photons. (A21). 478480
- particle decay**
A new experimental limit for the $e^- \rightarrow \nu_{\text{sub}}(e)^- \gamma$ decay. (A22). 493107
- particle production**
The production of μe events in antineutrino-nucleon interactions. (A22). 475652
- particle structure**
Phasor theory of electron structure. (A11). 483105
- physical radiation effects**
Orientation dependence of electron-irradiation damage in zinc oxide. (B25). [Data] 494177
- propagator**
Determination of the singularities of the electron propagator. (A21). 483615
- pulsed irradiation**
Relaxation of the electron pulse induced conductivity in thin layers of cadmium sulfide. (B25). 479549
- radiotherapy**
Whole body surface electron irradiation in the treatment of mycosis fungoides. (C63, C15). 470198
- range**
Further observation of ionization electrons drifting in liquid argon. (E41, A32). 466769
- A simple method of deriving range of electrons in solids from knowledge of reflected primary electrons. (A32). [Data] 460266
- recombination**
Radiative recombination and its application in experiments on electron cooling. (A12). 474598
- reflection**
Surface channeling of protons and electrons on reflection by monocrystals. (A13). 489062
- To the theory of electron elastic scattering from solids. (A13). 464218
- scattering**
Determination of partial and total scattering cross-sections for high energy electrons in the range 1.2-3 MeV. (A32). 483719
- Electron scattering from atoms within a laser field. (A12). 488789
- slowing-down**
Semiclassical perturbation theory of electron-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
- Slowing-down of fast electrons in helium and molecular hydrogen in the degradation cascade approximation. (A12). 488878
- Spatial correlation of energy deposition events in irradiated liquid water. (C11, C55). 465894
- Versatile numerical method for electron slowing-down spectral calculations. (A32). 490030
- solvation**
Effect of solvation energy on electron reaction rates in hydroxylic solvents. (B14). 486735
- spin**
Chapter 9. Spin of the electron. (A11). 471203
- spin orientation**
On the equations of spin motion in an external field. 1. (A11). 492496
- Relative corrections to electron polarization in muon decay. (A21). 468105
- Some features of the spin polarization of conductivity electrons in rare earth metals in the ferromagnetic - simple helix transition. (A13). 474798
- thermal conductivity**
On measuring the electron heat diffusion coefficient in a tokamak from sawtooth oscillation observations. (A14). 462395
- transmission**
Contribution of high-angle deflections to the fast-electron transmission. (A32). 462593
- transport theory**
Electron transport in one-dimensional finite systems. (A32, A12). [Data] 490024
- trapping**
Self-trapping of electrons and positrons in dense helium gas: a simple variational model. (A12, A13). 463965
- tunnel effect**
Electron tunneling in low temperature radiation chemistry of solid organic compounds. (B14). 479232
- vacuum polarization**
Corrections to the sixth-order anomalous magnetic moment of the muon. (A21, A11). 475602
- velocity**
An experimental determination of the parallel electron velocity distribution during strong turbulence. (A14). [Data] 489348
- waveguides**
Radiation of an electron at the waveguide open end in the presence of a strong monochromatic wave. (A11). 467010
- ELECTROPHORESIS:**
- gels**
Gel electrophoresis of inorganic cations. (B11). 460421
- ion mobility**
Method of double labelling for radiotracer study of zone electrophoresis. (D24, B12). 473604
- laboratory equipment**
Continuous and electrophoretic ion focussing to separate and enrich metal cations. (B11). 481639
- multi-element separation**
Separation of inorganic ions using two-dimensional zone electrophoresis followed by electrophoretic focussing on kieselguhr. (B11). 493535
- optimization**
Separation of inorganic ions using two-dimensional zone electrophoresis followed by electrophoretic focussing on kieselguhr. (B11). 493535

ELECTROPLATING:

- seals
Electro-deposition of nickel, on reactor seal discs. (E22). 463597

ELECTROPRODUCTION:

- charm particles
Deep inelastic quantum chromodynamic charm leptoproduction. (A21). 468068

- gauge invariance
Simple description of electroproduction and muoproduction in asymptotically free gauge theories. (A21). [Data] 464853

- gluons
Gluon operator coefficients in electroproduction. (A21). 483673

- hadrons
Charge retention in deep inelastic electroproduction. (A22). 464890

- parton model
A phenomenological model for nuclear leptoproduction. (A21). 489845

- pions
Pion-electroproduction. (A22). 489911

- structure functions
Phenomenological determination of electroproduction structure functions. (A21, A11). 486038

- Topics in deep inelastic scattering. (A21, A11; Structure functions, sum rules, dimensional regularization). 460217

- total cross sections
Heavy quarks and the measured surplus in the high-energy total photoproduction cross section. (A21, A11). 475571

ELECTROSLAG WELDING:

- Electro-slag welding of big castings in a cast 12%-chromium steel for wet steam turbines. (B22). 460713

- automation
Welding in the USSR. (B21, E22). 472611

- steels
Electrogas- and electrosag multi-layers high speed welding of nuclear pressure vessel steels. (B22). 460707

- welded joints
Heat treatment effect on radiation stability of electrosag welded joint of Mn-Ci-Cr-Mo type Czechoslovak steel. (B25). 484309

ELECTROSTATIC ACCELERATORS:

- See also *COCKCROFT-WALTON ACCELERATORS; DYNAMITRONS; ORSAY TANDEM ACCELERATOR; VAN DE GRAAFF ACCELERATORS*

- beam optics
Calculation of optical systems of electron accelerators for industry. (E16). 482603

- breakdown
Conditioning and breakdown phenomena in accelerator tubes. (E16). 494852

- Conditioning of NEC accelerator tubes. (E16). 494881

- Examination of the breakdown properties of pure and mixed accelerator tank gases. (E16). 494743

- control systems
Optical control system for high-voltage terminals. (E16; Patent). 466522

- dielectric materials
Preliminary comparison of MP sparking characteristics for SF₆ insulating gas mixtures and pure SF₆. (E16). 466546

- electric discharges
On the mechanism of the conductivity development of the vacuum accelerating tube insulation. (E16). 477091

- electron beams
High-voltage electron accelerators for applied purposes being developed in the Scientific Research Institute of Electrophysical Apparatus. (E16). 470416

- High-voltage pulse modulator for a high-current electron accelerator. (E16). 494785

- Small-sized accelerating tube for electron acceleration to 500 keV at pulse duration of 2 ns. (E16). 494828

- Study on the explosive-emission cathode diode at current pulses of large duration. (E16). 487890

- helium 4 beams
The Tandetron analysis system. (E16). 482627

- neutron sources
"ING-2" pulse neutron generator. (E16). 494880

- operation
Safety in the operation of electrostatic accelerators. (E16). 494750

- pressure measurement
Conditioning of NEC accelerator tubes. (E16). 494881

- reviews
Report on the fourth Tandem Conference at Ebeltoft, June 5-8, 1978. (E16). 494756

- safety
Safety in the operation of electrostatic accelerators. (E16). 494750

- simulation
QUARTZ: a numerical simulation of an asymmetric electrostatic accelerator. (E16). 494879

- spark gaps
Use of prepulse discharges in diodes of a high-current accelerators with a double shaping line. (E16). 494867

- sulfur fluorides
Examination of the breakdown properties of pure and mixed accelerator tank gases. (E16). 494743

ELECTROSTATIC ANALYZERS:

- Electrostatic axial symmetric energy analyzers of charged particles. (A14). 464437

- angular distribution
Performance of a twin parallel-plate energy analyser for scattered and sputtered particles. (E42, A13). 492221

- neutral particles
Multi-channel energy analyzer of charge-exchange neutral particles with high time resolution. (A14). 471615

proton beams

- A proton microbeam deflection system to scan target surfaces. (E16). 484867

size

- Effect of finite analyzer size on the distribution functions measured in field-free plasmas. (A14). 467530

ELECTROSTATIC LENSES:**beam optics**

- An electrostatic coaxial probe forming lens suitable for high-energy ion beams. (A12). 467241

performance

- Gabor lenses. (E16). 477034

- Progress in space charge lens development. (E16). 477016

space charge

- Gabor lenses. (E16). 477034

ELECTROSTATIC WAVES:

See *PLASMA WAVES*

ELECTROSTATICS:**field theories**

- Static non-abelian forces and the permutation group. (A11). 477605

ELEMENT ABUNDANCE:

- (Always coordinate with descriptor(s) for element(s) involved.)

natural uranium

- Evidence for a higher natural uranium content in world rivers. (B32). [Data] 462996

x-ray emission analysis

- Proton induced X-ray emission (PIXE) - A new tool in geochemistry. (B11, B31). 475891

ELEMENT 108:**heavy ion fusion reactions**

- Experiments on the synthesis of element 108 in the ²⁰⁸Pb + ⁵⁸Fe reaction. (A34). 486434

ELEMENT 111:**alpha decay**

- Experiments on synthesis of odd neutron-deficient isotopes of superheavy elements in reactions with ⁴⁸Ca ions. (A34). 486467

spontaneous fission

- Experiments on synthesis of odd neutron-deficient isotopes of superheavy elements in reactions with ⁴⁸Ca ions. (A34). 486467

ELEMENT 112:**alpha decay**

- Experiments on synthesis of odd neutron-deficient isotopes of superheavy elements in reactions with ⁴⁸Ca ions. (A34). 486467

spontaneous fission

- Experiments on synthesis of odd neutron-deficient isotopes of superheavy elements in reactions with ⁴⁸Ca ions. (A34). 486467

ELEMENTARY PARTICLES:

- See also *more specific entries as listed in the INIS Thesaurus*. Some questions on the research in particle physics. (A21, A22). 462557

bound state

- Antiparticles as bound states of particles in the factorized S-matrix framework. (A21). 481396

cern

- Hunting particles. (A20). 462531

current algebra

- Microscopic analysis of the elementary particle description of nuclear currents. (A21). 471992

general relativity theory

- Gravitation theory and theory of elementary particles. (A11). 467136

hadronic particle decay

- T particles as bound states of new heavy quarks. (A21). 471984

kerr field

- Finite motion of massive particles in the Kerr and Schwarzschild fields. (A15). 475423

lagrangian function

- Classical and quantum dynamics of particles with arbitrary spin. (A11). 467048

lee-yang theory

- A universal preon model. (A21). 468087

leptonic decay

- T particles as bound states of new heavy quarks. (A21). 471984

mass spectra

- Idea and application of spectrum-generating SU(3) and SU(4). (A21). 460166

matter

- The smallest units of matter. (A20, A11). 481345

reviews

- The new frontier of particle physics. (A12). 471373

schwarzschild metric

- Finite motion of massive particles in the Kerr and Schwarzschild fields. (A15). 475423

spin

- Classical and quantum dynamics of particles with arbitrary spin. (A11). 467048

- Spin, supersymmetry, and square roots of constraints. (A11, A21). 459706

symmetry

- Axiomatic, or model-independent, approach to the symmetries of the elementary particles. (A21). 483664

unitary symmetry

- Unitary symmetry and elementary particles. (A21; Book). 486075

wave functions

- Reducible relativistic wave equations. (A11). 474468

ELEMENTS:

- (For chemical elements only.)

adsorption

- Separation of metal ions by anion exchange in mixtures of hydrochloric acid and hydrofluoric acid. (B11). 475873

| | |
|--|--------|
| diagrams | |
| Nuclides and isotopes. Twelfth edition. (A30, B12). | 472089 |
| impurities | |
| Analysis of pure substances. Choice of a method. (B11). | 478789 |
| specific heat | |
| On character of dependence of heat capacity of simple bodies on number of element in the Mendeleev periodic system at different temperatures. (B12). | 478949 |
| trace amounts | |
| Experiments made to separate the trace elements in seawater by extraction and their determination by neutron activation analysis. (B11). | 483971 |
| INAA study on trace elements in hair of three selected population groups in Czechoslovakia. (B11). [Data] | 472375 |
| x-ray spectroscopy | |
| Determination of elements from titanium to cesium by X-ray spectral analysis in a cyclotron. (B11). | 486532 |
| ELIASHBERG EQUATIONS: | |
| See GORKOV-ELIASHBERG THEORY | |
| ELMO BUMPY TORUS: | |
| charged-particle transport | |
| Radiat transport in the ELMO Bumpy Torus in collisionless regimes. (A14). | 471662 |
| charged-particle transport the confinement | |
| One-dimensional transport solutions for EBT-II. (A14). | 485746 |
| Electron energy confinement in ELMO Bumpy Torus (EBT). (A14). | 485733 |
| Influence of globalmagnetic perturbations on plasma behavior in Elmo Bumpy Torus. (A14). | 467670 |
| ecr heating | |
| Electron cyclotron heating for Bumpy Torus. (A14). | 489200 |
| Electron-cyclotron heating of toroidal plasma with emphasis on results from the ELMO Bumpy Torus (EBT). (A14). | 485686 |
| Experimental and theoretical studies of the ELMO Bumpy Torus (EBT). (A14). [Data] | 464289 |
| A theoretical study of microwave heating in ELMO Bumpy Torus. (A14). | 464259 |
| Wall effects on the absorption of electron cyclotron waves in an EBT plasma. (A14). | 467706 |
| Wave trajectory and electron cyclotron heating in toroidal plasmas. (A14). | 464492 |
| electromagnetic radiation | |
| Budden tunnelling in parallel stratified plasmas. (A14). | 464260 |
| Wall effects on the absorption of electron cyclotron waves in an EBT plasma. (A14). | 467706 |
| impurities | |
| Spatial distribution of impurities and H neutrals in ELMO Bumpy Torus (EBT). (A14). [Data] | 459933 |
| magnetohydrodynamics | |
| Staircase model for magnetohydrodynamic spectrum and global instabilities in the Elmo bumpy torus. (A14). | 478137 |
| microwave amplifiers | |
| Development program for a 200 kW, CW, 28-GHz gyrokystron. Quarterly report No. 10, July - September 1978. (A14). | 464366 |
| operation | |
| Self-consistent operating point calculations of ELMO bumpy torus reactors. (A14). | 459892 |
| performance testing | |
| Point model calculations of EBT performance. (A14). | 489257 |
| planning | |
| EBT theory workshop panel report. (A14). | 467531 |
| plasma | |
| Kinetic transport properties of a bumpy torus with finite radial ambipolar field. (A14). | 459998 |
| plasma diagnostics | |
| Electron energy confinement in ELMO Bumpy Torus (EBT). (A14). | 485733 |
| plasma instability | |
| Staircase model for magnetohydrodynamic spectrum and global instabilities in the Elmo bumpy torus. (A14). | 478137 |
| plasma macroinstabilities | |
| Effects of hot electrons on magnetohydrodynamic modes in EBT. (A14). | 485780 |
| reviews | |
| ELMO Bumpy Torus (EBT) Reactor: a status report. (A14). | 475144 |
| ELMO Bumpy Torus. (A14; Survey of research program). | 467505 |
| ELMO Bumpy Torus: present and future. (A14). | 489364 |
| thermonuclear reactors | |
| The Elmo Bumpy Torus (EBT) reactor. (A14). [Data] | 483409 |
| transport theory | |
| Kinetic transport properties of a bumpy torus with finite radial ambipolar field. (A14). | 459998 |
| wall loading | |
| Gas injection in EBT-S for assessment of particle loading effects of neutral beam injection. (A14). | 485673 |
| ELMO DEVICES: | |
| See also ELMO BUMPY TORUS | |
| ELUTION (SOLUBLE CONSTITUENTS): | |
| See LEACHING | |
| EMANATION METHOD: | |
| On the theory of emanation method. (F51). | 477547 |
| phase transformations | |
| Calculation of emanation polytherms by means of empirical dependence. (F51). | 477553 |
| EMANOMETERS: | |
| "FUNGI": a radon measuring instrument with fast response. (E41). | 466813 |

EMBOLI:

| | |
|--|--------|
| diagnosis | |
| Gated and cinematic perfusion lung imaging in dogs with experimental pulmonary embolism. (C62; /sup 99m/Tc-macroaggregated albumin and -microsphere scanning). | 487673 |
| Lung scintiscanning with oxygen 15 labelled carbon monoxide. (C62). | 491313 |
| Radionuclide venography and lung scanning: concise communication. (C62; /sup 99m/Tc-serum albumin microsphere venography and ¹³³ Xe ventilation scintiscanning). | 473400 |
| Resolution rates of pulmonary embolism assessed by serial positron imaging with inhaled O-15-labelled carbon dioxide. (C62). | 473467 |
| Transmission computed tomographic diagnosis of experimentally produced acute pulmonary vascular occlusion in the dog. (C62, C61; Comparison with radiography and scintiscanning). | 491326 |
| V/Q mismatches unassociated with pulmonary embolism: case report and review of the literature. (C62; ¹³³ Xe ventilation scans and /sup 99m/Tc-MAA perfusion scans). | 470130 |
| radiation effects | |
| Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). | 473029 |

EMBRITTELEMENT:

| | |
|---|--------|
| physical protection devices | |
| Neutron flux reducing device. (E22, E32). | 482699 |

EMBRYONIC CELLS:

| | |
|---|--------|
| biological radiation effects | |
| Effect of radiation quality and repair processes on the incidence of neoplastic transformation in vitro. (C11; X radiation, mice). | 490914 |
| Radiation induction of endogenous type C virus from mouse cells transformed in vitro by murine sarcoma virus. (C11, C12). | 460979 |
| Suppression of transformed foci, induced by alpha radiation of C3H 10T1/2 cells, by untransformed cells. (C21). | 479950 |
| carcinogenesis | |
| Transformations of C3H 10T1/2 cells by Benzo(a)pyrene and subsequent attempts at suppression of transformed foci by untransformed cells and Vitamin A. (C21; Alpha particles). [Data] | 479951 |

EMBRYOS:

| | |
|---|--------|
| biological radiation effects | |
| Neutron irradiation of rat embryos in utero. (C14). | 461058 |
| cumulative radiation effects | |
| Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] | 494346 |
| delayed radiation effects | |
| Offspring of patients treated for cancer in childhood. (C15). | 487260 |
| molecular biology | |
| Autoradiographic study of macromolecular synthesis in the fusion epithelium of the developing rat primary palate in vitro. (C31). | 487320 |
| mortality | |
| Copper sensitivity of the Northern anchovy, <i>Engraulis mordax</i> , during its early life history. (C52). [Data] | 487566 |
| Strain differences in the embryotoxicity of ²³⁹ Pu. (C21; Rats). [Data] | 473056 |
| muscles | |
| Autonomy of tendon development in the embryonic chick wing. (C14). | 479836 |
| Role of the somitic mesoderm in the development of the thorax in bird embryos. (C14). [Data] | 479819 |
| radiation doses | |
| Determination of radiation exposure of fetuses due to radiopharmaceuticals in nuclear medicine. (C55). | 494468 |
| radiation hazards | |
| Embryotoxicity of ⁸⁵ Kr in gravid rats. (C21). [Data] | 473035 |
| ICRP publication 26 and the 'ten-day rule'. (C54). | 491217 |
| Radiation and the embryo. (C55, C15). | 491228 |
| radiosensitivity | |
| Radiosensitivity of the mouse embryo and dominant lethal mutation induction by ionizing radiation or methyl methanesulfonate analyzed in vitro. (C14; X radiation). | 461037 |
| x radiation | |
| The effect of cell killing by X-radiation on pattern formation in the chick limb. (C14, C11). | 490978 |

EMERGENCIES:

See ACCIDENTS

EMERGENCY CORE COOLING SYSTEM:

See ECCS

EMERGENCY PLAN:

See EMERGENCY PROVISIONS

EMERGENCY PROVISIONS:

| | |
|---|--------|
| Interim guidance on off-site emergency monitoring systems. (C52, B32). | 466329 |
| Nuclear, biological and chemical disasters. (C52). | 487397 |
| Recent developments in Federal radiological emergency response planning and preparedness activities with states and local governments. (C52). | 466283 |
| organizing | |
| Emergency protection in nuclear power plants. (C52). | 476690 |
| power supplies | |
| Emergency power generators with diesel aggregates. Contents of the draft regulation KTA 3702.1. Pt. 1. (E22). | 484896 |
| ujv | |
| Experience with emergency planning. (C52). | 494411 |
| EMERGENCY RODS: | |
| See SCRAM RODS | |
| EMERGENCY SHUTDOWN: | |
| See SCRAM | |

- EMF:**
See *ELECTROMOTIVE FORCE*
- EMISSION:**
See also *ELECTRON EMISSION; FIELD EMISSION; NEUTRON EMISSION; PHOTOELECTRIC EMISSION; PHOTOEMISSION; PHOTON EMISSION; SECONDARY EMISSION; STIMULATED EMISSION; THERMIONIC EMISSION*
- EMISSION (ELECTRON):**
See *ELECTRON EMISSION*
- EMISSION SPECTRA:**
- comparative evaluations**
Chemiluminescence in the peroxidation of tannic acid. (A12). 485525
 - spectrophotometers**
Spectrum of the cosmic background radiation. (A15). 478363
- EMISSION SPECTROSCOPY:**
See also *FLUORESCENCE SPECTROSCOPY*
- Inductively coupled plasma-atomic emission spectroscopy: an evaluation of the use of nitrogen-argon admixtures as plasma discharge atmospheres. (B11). 472410
 - fabry-perot interferometer**
Characterization of a Fabry-Perot interferometer and a dc arc plasma jet for spectrochemical analysis. (B11). 460389
 - interference**
Effectiveness of interference filters for reduction of stray light effects in atomic emission spectrometry. (B11). [Data] 465253
 - isotope ratio**
Emission spectrometry system for analysing the composition of a gaseous mixture. (B11; isotope mixture). 462657
 - laboratory equipment**
The spectrochemical laboratory - equipment and methods. (B11). 475879
 - manuals**
The spectrochemical laboratory - equipment and methods. (B11). 475879
 - monochromators**
Versatile, computer-controlled, scanning monochromator for elemental analysis: software listings. (B11, F50). 490282
 - optical filters**
Effectiveness of interference filters for reduction of stray light effects in atomic emission spectrometry. (B11). [Data] 465253
 - rocks**
Major and minor oxide and trace element determination in silicate rocks by direct current plasma optical emission echelle spectrometry. (B11). 490272
 - urine**
Concentration and spectrochemical determination of trace metals in urine with a poly(dithiocarbamate) resin and inductively coupled plasma-atomic emission spectrometry. (B11). 493475
- EMITTANCE (BEAM):**
See *BEAM EMITTANCE*
- EMP:**
See *ELECTROMAGNETIC PULSES*
- EMPHYSEMA:**
Radiological features of pulmonary oedema. (C61). 482288
- biological models**
Elastase-induced emphysema in guinea pigs. (C52). [Data] 473238
 - radiation effects**
Radiation therapy in lymphomatoid granulomatosis. (C15, C63). 461077
- EMPLOYEES:**
See *PERSONNEL*
- EMPLOYMENT:**
See *OCCUPATIONS*
- EMS:**
- biological effects**
Changes in mammalian sperm morphology after x-ray and chemical exposures. (C14; Mice). 494307
In vivo somatic mutation systems in the mouse. (C14; X radiation). 494302
 - Unscheduled DNA synthesis (DNA repair) in the germ cells of male mice: its role in the study of mammalian mutagenesis. (C14; X radiation). 494303
 - mutagenesis**
Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). 494294
- EMULSIFIERS:**
See also *DETERGENTS*
- ENAMELS:**
- qualitative chemical analysis**
The mineral composition of enamel from two South African population groups. (C61). 494511
- ENCEPHALITIS:**
- radiation effects**
Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- ENCEPHALOGRAPHY:**
See *BIOMEDICAL RADIOGRAPHY*
- ENDOCRINE DISEASES:**
See also *ACROMEGALY; CUSHING SYNDROME; DIABETES MELLITUS; GOITER; HYPERTHYROIDISM; HYPOTHYROIDISM; THYROIDITIS*
- biological effects**
Extra-renal effects of perinatal irradiation: clinical metabolic studies on beagles with chronic renal failure. (C14; Gamma radiation). 479848
 - diagnosis**
Concentration of radiolabeled cholesterol in a feminizing adenoma of the testis. (C62, C21; ^{125}I -iodocholesterol). 473455
Differential diagnosis of hypercalcemia by measurement of parathyroid hormone, calcitonin, and 25-hydroxy-vitamin D. (C62). 470137
 - hydroxy compounds**
D radioimmunoassay of 17-hydroxy-progesterone: physiological variations and pathological values in man. (C45). 491102
 - progesterone**
D radioimmunoassay of 17-hydroxy-progesterone: physiological variations and pathological values in man. (C45). 491102
 - radioimmunoassay**
Simple method of measuring the ^{125}I -T₃ bond to serum proteins in the in vitro T₃ test using the Ostion AD ion exchanger. (C62). 463464
- ENDOCRINE GLANDS:**
See also *ADRENAL GLANDS; PANCREAS; PARATHYROID GLANDS; PITUITARY GLAND; THYROID*
- biological radiation effects**
Endocrine shifts under partial and whole-body irradiation of man. (C15). 479903
Radiation toxicity in dogs. (C14; Gamma radiation). 469626
- ENDOMETRIUM:**
See *UTERUS*
- ENDOPLASMIC RETICULUM:**
- radiation injuries**
Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958
 - radiosensitivity**
Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958
- ENDOR:**
- research programs**
Microwave-optical double resonance spectroscopy. Progress report, February 1, 1978 - January 31, 1979. (B12). 479025
- ENDOSPERM:**
- proteins**
Barley endosperm proteins. In vitro synthesis, transport and peptide mapping. (C45). 463340
 - starch**
Buckwheat as a potential source of high-quality protein. (C41). 463290
- ENDOSTEUM:**
See *BONE TISSUES*
- ENDOTHELIUM:**
- amino acids**
New substrates for the radioassay of angiotensin converting enzyme of endothelial cells in culture. (C31). [Data] 466254
 - biological radiation effects**
Radiosensitivity of endothelium. (C15). 482070
 - biological recovery**
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 487210
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 476554
 - biological repair**
Interphase death and repair of radiation injuries to thoracic aorta endothelium of mammals. (C14). 484533
 - radiation injuries**
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 487210
Repair of sublethal radiation damage by capillaries. (C14; ^{60}Co γ rays; beagles). 476554
 - radiosensitivity**
Radiosensitivity of endothelium. (C15). 482070
- ENDOTOXINS:**
- extracorporeal irradiation**
Haematologic effect and Schwartzman reactivity of radiodetoxified endotoxin. (C11). 476525
 - metabolism**
Quantitative Limulus lysate assay for endotoxin activity: aggregation of radioiodinated coagulogen monomers. (C62; ^{125}I tracer technique). 487719
 - radiation protection**
Difference in the mechanism of radioprotection between carbon particles and bacterial endotoxin. (C14). 472971
 - radioprotective substances**
Effect of endotoxin on radiation syndrome - a review. (C14). 487215
- ENDOXAN:**
- biological effects**
Decreased hybrid susceptibility to murine myeloma grafts. (C14; X radiation, cyclophosphamide). 487224
In vivo somatic mutation systems in the mouse. (C14; X radiation). 494302
 - Unscheduled DNA synthesis (DNA repair) in the germ cells of male mice: its role in the study of mammalian mutagenesis. (C14; X radiation). 494303
 - toxicity**
Nuclear Medicine Technology. Progress report for quarter ending September 30, 1978. (B13, C21, C62). [Data] 468914
- ENERGETIC SOLAR PARTICLES:**
- Solar-geophysical data number 406, June 1978, Part I. (prompt reports). Data for May 1978, April 1978. (A15, B33). 475234
 - cosmic ray propagation**
Motion of solar cosmic rays in the coronal magnetic field. (A15). 483533

- data**
Solar-geophysical data number 407, July 1978. Part II.
(Comprehensive reports). Data for January 1978 - December 1977
and miscellanea. (A15). 464547
- ionization**
Upper limits on production rate of NO per ion pair. (A15). 485885
- neutrinos**
Quasi-biennial variation of the solar neutrino flux and solar
activity. (A15). [Data] 462474
- protons**
Upper limits on production rate of NO per ion pair. (A15). 485885
- solar cycle**
Quasi-biennial variation of the solar neutrino flux and solar
activity. (A15). [Data] 462474
- tables**
Solar-geophysical data number 406, June 1978. Part II.
(Comprehensive reports). Data for December 1977 - november
1977 and miscellanea. (A15, B33). [Data] 475235
- trajectories**
Motion of solar cosmic rays in the coronal magnetic field. (A15).
483533
- ENERGIEONDERZOEK CENTRUM NEDER:**
See ECN
- ENERGY:**
See also ACTIVATION ENERGY; BINDING ENERGY; COULOMB
ENERGY; FREE ENERGY; GEOTHERMAL ENERGY; NUCLEAR
ENERGY; PAIRING ENERGY; SOLAR ENERGY
Energy glossary. (F60). 488525
Inventory of data bases, graphics packages, and models in
Department of Energy laboratories. (F30). 471142
Matter and energy. (A33). 481508
- environment**
Energy and environment: Vital challenges of our society. (C52,
F11). 476726
Energy and environment. (C52; Denmark). 463377
- forecasting**
Energy. The countdown. (F11). 488403
- global aspects**
World energy. Looking ahead to 2020. (F11). 462000
- information retrieval**
Experiment in data tagging in information-accessing services
containing energy-related data. Final report 1975-78. (F30).
492305
- research programs**
Energy research. (F61). 480953
Mathematics in energy related research at the Tennessee Valley
Authority, at Union Carbide's Oak Ridge Facilities, and at
University of Tennessee College of Engineering. Final report.
(F50; Abstracts of research projects, and recommendations
regarding mathematical activity). 492325
- resources**
Generation of primary energy. (F11). 471107
- ENERGY ABSORPTION:**
See ENERGY TRANSFER
- ENERGY CONSERVATION:**
Energy sources 78/79. (B31). 469472
- ENERGY CONSUMPTION:**
Energy today and tomorrow. (F11). [Data] 488394
- biological effects**
Spontaneous cancer mortality rate and its relationship to specific
energy consumption. (C15; X and gamma radiation). [Data] 491008
- forecasting**
Future structures of energy supply. (F11). 492283
Nuclear energy's delicate balance between economical utilization and
public approval. (F11). 474323
The responsibility of industrialized nations in the energy problem.
(F10). 477486
- nuclear energy**
Future structures of energy supply. (F11). 492283
- reviews**
Generation of primary energy. (F11). 471107
- sociology**
The energy situation of our society. (C52). 482209
- ENERGY CONVERSION:**
See also DIRECT ENERGY CONVERSION; THERMIONIC CONVERSION
comparative evaluations
Energy for tomorrow - planning of today. (F10). 480907
- ENERGY DEMAND:**
See POWER DEMAND
- ENERGY DISSIPATION:**
See ENERGY LOSSES
- ENERGY DISTRIBUTION:**
See ENERGY SPECTRA
- ENERGY EXCHANGE:**
See ENERGY TRANSFER
- ENERGY LEVELS:**
See also D STATES; EXCITED STATES; FERMI LEVEL; GROUND
STATES; HIGH SPIN STATES; ISOBARIC ANALOGS; METASTABLE
STATES; P STATES; ROTATIONAL STATES; VIBRATIONAL STATES;
YRAST STATES
- color model**
Rigorous results on measuring the quark charge below color
threshold. (A21). 478471
- computer calculations**
Computer-building of gamma-ray decay schemes on the basis of
gamma-gamma coincidences. (A33, F51). 483765
- configuration mixing**
External mixing of resonance states. (A33). 468398
Perturbation of linearly transformed energy spectra by configuration
mixing. (A33). 478657
- expectation value**
On expectation values for nuclear energy levels. (A11). [Data] 492407
- fine structure**
Expansions in inverse principal quantum number for atoms in high
Rydberg states. (A12). 462149
- finite difference method**
On some calculation methods for resonance functions. (A33). 493215
- fission products**
Level schemes for some fission product nuclides. (A34). 468524
- ion spectroscopy**
Beam foil investigation of energy level characteristics of xenon and
helium. (A12). 492548
- l codes**
Use of the least square method for the refinement of energy levels
of nuclear states and the calculation of the γ -transition
multipolarity mixture. (F51). 466956
- lifetime**
Lifetimes of resonant states high above a singularity in a potential.
(A11). 492485
- physical radiation effects**
Dependence of energy spectrum of levels induced by electron
irradiation into GaAssub(1-x)Psub(x) and Alsub(x)Gasub(1-x)As on
composition. (A13). 474817
- position operators**
Localized states for relativistic systems. (A21; Poincare group). 478430
- tin 117**
Photoexcitation of the 7310-keV level in ^{120}Sn and the 6517-keV
level in ^{117}Sn . (A34). 465160
- tin 120**
Photoexcitation of the 7310-keV level in ^{120}Sn and the 6517-keV
level in ^{117}Sn . (A34). 465160
- volterra integral equations**
On some calculation methods for resonance functions. (A33). 493215
- wave functions**
Iterative hypervirial-scaling method for obtaining wave functions
and eigenvalues. (A11). 474426
Iterative hypervirial-scaling method for obtaining wave functions
and eigenvalues. (A11). 485291
- ENERGY LOSSES:**
See also RELAXATION LOSSES
- energy spectra**
Stopping power and energy degradation for electrons in water vapor.
(C11, C55). 460987
- ENERGY OPERATORS:**
See HAMILTONIANS
- ENERGY POLICY:**
(Overall policy concerning development, production, use, and
conservation of energy and its sources.)
Nuclear fuel and energy policy. (F40; Book). 488438
The role of the Hungarian natural resources in the domestic energy
economy. (F11). 474316
- canada**
What's ahead for Canada in energy supply (question mark). (F11).
461990
- czechoslovakia**
Innovation of power management structure in Czechoslovakia and
nuclear power. (F11). 485190
- denmark**
Energy political review from the Ministry of Trade, ER79. (F11;
Denmark). 463788
Energy report from The Ministry of Commerce, ER79. (F11;
Denmark). 495237
Nuclear power. The nuclear fuel cycle. (E52, F12; Denmark). 480881
- environment**
Environmental protection and the public within the framework of
energy policy. (C52, F22). 484673
Report on connections between energy sector and environment in a
long dated prospect. (F11). 471100
- european communities**
Nuclear power's vocation in the energy strategy of the European
Community. (F11). 463785
- feasibility studies**
Sun or uranium - to choose energy future. Final report from the
project 'Energy and Society'. (F11, C50). 461994
- federal republic of germany**
The calculation of an unpredictable phenomenon. (F10). 466907
Chances and risks of new technologies. (E35, F61). 495003
Energy policy and the communities. (F10, B16). 488389
Nuclear energy and German foreign policy. (F61). 471190
- forecasting**
Sun or uranium - to choose energy future. Final report from the
project 'Energy and Society'. (F11, C50). 461994
Worldwide energy prospects. Synthesis of studies published in 1976
and 1977. (F11). 474298
- france**
The French nuclear power-station programme. (F10, F61). 471094
- fuel cycle**
Act of 5 August 1958 relating to economic and budgetary reforms.
(F27). 463818
- international cooperation**
Tasks and problems of international energy policy. (F11). 488396
- japan**
Basic program of energy research and development. (F11). 492280

| | |
|--|--------|
| nuclear energy | |
| A reply to questions on nuclear energy. (F11). | 485178 |
| occupations | |
| Energy options and employment. (F11). | 474306 |
| proliferation | |
| Energy policy, nuclear export and the proliferation of nuclear weapons. (F28). | 462021 |
| public relations | |
| New energies and nuclear plants controversy. (F11). | 474311 |
| research programs | |
| Basic program of energy research and development. (F11). | 492280 |
| switzerland | |
| Basic principles of Swiss energy policy. (F10, F61). | 471098 |
| transport | |
| Economic importance of transport in international energy constraints the case of hydrocarbons. (F11). | 485203 |
| united kingdom | |
| Energy options for the United Kingdom. (F11). | 492287 |
| ENERGY RANGE: | |
| See also MEV RANGE 01-10 | |
| ENERGY RESOLUTION: | |
| (Full Width at Half-Maximum of energy spectra.) | |
| proportional counters | |
| Microdosimetric study with cylindrical walled and wall-less proportional counters. (C11, C55). [Data] | 460971 |
| ENERGY SHORTAGES: | |
| probability | |
| Evaluation of security of supplies for the Danish energy system up to 1995. (F11). | 463792 |
| ENERGY SOURCES: | |
| See also ANTHRACITE; COAL; DENATURED FUEL; FOSSIL FUELS; LIGNITE; MOLTEN SALT FUELS; NATURAL GAS; NUCLEAR FUELS; PETROLEUM; RADIOISOTOPE HEAT SOURCES; SHALE OIL; SOLID FUELS; SPENT FUELS; WASTE HEAT | |
| Energy production and human health. (C21). | 469735 |
| New energies and nuclear plants controversy. (F11). | 474311 |
| comparative evaluations | |
| Alternative new energy options for Brazil. (F11). | 463789 |
| The international availability of energy minerals. (F11). | 480911 |
| Nuclear power for economic development. (F11). | 482936 |
| economics | |
| The social compatibility of energy technology. (F10). | 466908 |
| energy conservation | |
| World energy. Looking ahead to 2020. (F11). | 462000 |
| environment | |
| Environmental protection and the public within the framework of energy policy. (C52, F22). | 484673 |
| Inventory of environmental impact models related to energy technologies. (C50). | 473190 |
| Prospects brought by new energy techniques. Pt.6. Repercussions on environment. (F11). | 471103 |
| feasibility studies | |
| Alternative new energy options for Brazil. (F11). | 463789 |
| forecasting | |
| Alternative new energy options for Brazil. (F11). | 463789 |
| Energy today and tomorrow. (F11). | 488394 |
| numerical solution | |
| Environmental Resources Section. (F30). [Data] | 482951 |
| reliability | |
| Evaluation of security of supplies for the Danish energy system up to 1995. (F11). | 463792 |
| research programs | |
| EMACC: FY-1978 topical area report. (B20). | 486834 |
| reserves | |
| The responsibility of industrialized nations in the energy problem. (F10). | 477486 |
| Uranium mining in Australia. (F11, B31). | 477498 |
| risk analysis | |
| Nuclear risks. (C52, C15). | 461259 |
| sociology | |
| The social compatibility of energy technology. (F10). | 466908 |
| thermonuclear reactions | |
| Controlled nuclear fusion on energy source of the future. (A14). | 471743 |
| water | |
| Water use alternatives for Navajo energy production. (C50, C52). [Data] | 494382 |
| ENERGY SPECTRA: | |
| electron spectra | |
| Energy spectra of degraded electrons in water vapour and in carbon. (C11, C55). [Data] | 465883 |
| kev range 01-10 | |
| Determination of backscattering coefficients for low energy electrons in different gases. (C11, C55). | 465892 |
| neutron beams | |
| The local distribution of radiation quality of a collimated fast neutron beam from 15 MeV deuterons on beryllium. (C11, C55). [Data] | 465887 |
| NENINA-A computer code for the calculation of energy distributions of neutrons incident on a circular disc. (A31). [Data] | 478579 |
| radiation doses | |
| Relations of secondary electron emission to microdosimetry and applications to two-target theory. (C11, C55). [Data] | 465889 |
| secondary emission | |
| Energy spectra of secondary ions and secondary ion emission (SIE) mechanisms. (A12). | 477830 |
| transition radiation | |
| Spectrum and energy dependence of X-ray transition radiation. (A11, E41). | 467093 |

ENERGY STORAGE:

| | |
|---|--------|
| See also HEAT STORAGE | |
| cooling towers | |
| Cooling circuit for energy production plant. (E22). | 463584 |
| electric generators | |
| Experimental power reactor dc generator energy storage study. (A14). | 485732 |
| exploding wires | |
| Search for exploding foil switches suitable for fast energy transfers. (A14). | 471602 |
| heat transfer | |
| Heat transfer from aluminum to He II: application to superconductive magnetic energy storage. (E11, E12). | 491485 |
| induction | |
| Inductive store with electromagnetic current multiplication. (A14). | 471660 |
| liquid metals | |
| Thermal plant for energy production. (E35; LMFBR type reactors). | 463689 |
| refrigeration | |
| Optimization of helium refrigerators and liquefiers for large superconducting systems. (E12). | 491515 |
| research programs | |
| LASL: controlled thermonuclear research program. Progress report. January - December 1977. (A14). | 464498 |
| Superconducting magnetic energy storage (SMES) program. January 1 - December 31, 1978. (E12, A14). | 466493 |
| superconducting magnets | |
| Superconductive magnetic energy storage. (A12). | 488768 |
| uses | |
| Superconducting magnetic energy storage. (E12, A14). | 487844 |
| water reservoirs | |
| Cooling circuit for energy production plant. (E22). | 463584 |
| ENERGY TRANSFER: | |
| See also CONVECTION; FORCED CONVECTION; HEAT TRANSFER; LET; NATURAL CONVECTION; RADIANT HEAT TRANSFER; RADIATIONLESS DECAY; THERMAL CONDUCTION | |
| fast neutrons | |
| Energy deposition spectra for neutrons based on recent cross section evaluations. (C11, C55). [Data] | 460954 |
| probability | |
| Intermolecular energy transfer effects in thermal unimolecular reactions. (B12). | 460534 |
| waveguides | |
| Magnetic selfinsulation in vacuum coaxial lines. (A14). | 492767 |
| ENERGY TRANSMISSION: | |
| See POWER TRANSMISSION | |
| ENERGY-LEVEL SCHEMES: | |
| See ENERGY LEVELS | |
| ENERGY-LEVEL TRANSITIONS: | |
| See also COULOMB EXCITATION; DE-EXCITATION; EXCITATION; E1-TRANSITIONS; E2-TRANSITIONS; FORBIDDEN TRANSITIONS; GAMMA CASCADES; M1-TRANSITIONS; M2-TRANSITIONS; RADIATIONLESS DECAY; STIMULATED EMISSION | |
| actinide compounds | |
| The influence of charge-transfer and Rydberg states on the luminescence properties of lanthanides and actinides. (B12, A13, A12). | 460441 |
| dipole moments | |
| Nuclear axial dipole transition moment in the sigma model. (A33). | 478658 |
| hyperfine structure | |
| Hyperfine spectroscopy of radioactive atoms. (A12). | 485463 |
| lifetime | |
| Experimental studies of atomic and molecular lifetimes. (A12). | 474619 |
| mathematical models | |
| Vibrational nonadiabaticity and tunneling effects in transition state theory. (B12). | 460497 |
| multipolarity | |
| Average multiplicity of continuum transitions of nuclei at high angular momentum. (A34). | 490152 |
| phonons | |
| Observation of one phonon transitions in terbium by nuclear resonance fluorescence. (A13). | 459841 |
| probability | |
| Optical spectroscopy of f-element compounds. (B11). | 460381 |
| rare earth compounds | |
| The influence of charge-transfer and Rydberg states on the luminescence properties of lanthanides and actinides. (B12, A13, A12). | 460441 |
| spectroscopy | |
| Hyperfine spectroscopy of radioactive atoms. (A12). | 485463 |
| time measurement | |
| Lifetime measurements of excited nuclear levels by Doppler-shift methods. (A30). | 464919 |
| ENEWETAK: | |
| See ENIWETOK | |
| ENGINEERING: | |
| See also NUCLEAR ENGINEERING | |
| indexes | |
| Bendix Kansas City Division technological spinoff through 1978. (F60). | 474393 |
| isotope applications | |
| The application of radioisotopes in technology. (D21). | 484788 |
| research programs | |
| Engineering department annual progress report 1 January -31 December 1978. (F62; Risoe National Laboratory, Denmark). | 495328 |

- specifications**
Index to UKAEA, BNFL, MOD(PE) AWRE and recommended external standards. (F61). 492381
- ENGINEERING TEST REACTOR:**
See ETR REACTOR
- ENGINES:**
See MOTORS
- ENGLAND:**
See UNITED KINGDOM
- ENIWETOK:**
contamination
Fission- and alpha-track study of biogeochemistry of plutonium and uranium in carbonates of bikini and eniwetak atolls. Final report. (E14). 487861
mice
House mice on Eniwetak Atoll. (C14). 490946
- ENCEPHALINS:**
radioimmunoassay
Dried *Staphylococcus aureus* as a rapid immunological separating agent in radioimmunoassays. (C62). [Data] 487753
Radioimmunoassay of enkephalins. (C45, C62). [Data] 487371
- ENRICHED MATERIALS (ORES):**
See ORE CONCENTRATES
- ENRICHED URANIUM:**
See also HIGHLY ENRICHED URANIUM; SLIGHTLY ENRICHED URANIUM
eurodif
First enriched uranium from Tricastin. (D11). 491382
government policies
Uranium enrichment policies. (D11). 476828
international organizations
Urenco-Centec. (F61; Descriptive brochure). 495326
isotope separation
Domestic needs for enriched uranium and possibilities of the enriched technology transfer. (D11, F12). 484768
market
Uranium. (F11, F61). 482925
production
Environmental Development Plan for advanced isotope separation. (C52, D11, C54). 494403
Method for separation of isotope compounds. (D11). 484769
Survey of foreign enrichment capacity, contracting and technology: January 1977 - June 1978. (D11). 461436
Uranium enrichment: a review of the present world status - capacity, technology, and plans. (D11, F12). 494652
Uranium enrichment plans. (D11). 476827
proliferation
Nuclear policies: fuel without the bomb. (F42, F12; 5 papers). 488503
r-b reactor
Characteristics of zero power reactor with 80% enriched uranium in core. (E36). 485009
south africa
Uranium. (F11, F61). 482925
- ENRICHED URANIUM REACTORS:**
See also more specific entries as listed in the INIS Thesaurus.
- ENRICHMENT (ISOTOPIC):**
See ISOTOPE SEPARATION
- ENRICHMENT (URANIUM):**
See ISOTOPE SEPARATION
- ENRICHMENT PLANTS (CENTRIFUGE):**
See CENTRIFUGE ENRICHMENT PLANTS
- ENRICHMENT PLANTS (GAS DIFFUSION):**
See GASEOUS DIFFUSION PLANTS
- ENRICHMENT PLANTS (ULTRACENTRIFUGAL):**
See CENTRIFUGE ENRICHMENT PLANTS
- ENRICO FERMII-2 REACTOR:**
reactor safety
Interim safety evaluation report related to operation of Enrico Fermi Atomic Power Plant, Unit 2, Detroit Edison Company. (C52, E31). 461267
- ENSTATITE:**
See MAGNESIUM SILICATES
- ENTERITIS:**
diagnosis
Evaluation of inflammatory bowel disease with ^{99m}Tc-DTPA. (C62, C31). 470114
- ENTHALPY:**
See also REACTION HEAT; VAPORIZATION HEAT
- ENTOMOLOGY:**
See INSECTS
- ENTRAINMENT:**
biological effects
Aquatic Ecology Section. (B32, C21; ⁶⁰Co, ¹³⁷Cs, ³H). 479658
environment
Cooling Systems Program. (B32). 479659
mathematical models
Aquatic Ecology Section. (B32, C21; ⁶⁰Co, ¹³⁷Cs, ³H). 479658
- ENTROPY:**
Estimation of the entropy of a quantum state with the aid of covariant and contravariant symbols. (A11). 495699
information theory
A note on relative entropy. (A11). 488552
quantum mechanics
A note on relative entropy. (A11). 488552
- ENVIRONMENT:**
acoustic monitoring
Method for using acoustic sounder categories to determine atmospheric stability. (C52, B33). 469962
comparative evaluations
Critique of methods for estimating plume depletion and deposition of airborne radionuclides. (B33, C52). [Data] 469565
computer codes
H₂S transport data for an aquatic system. (C52). 480089
contamination
Implementation of environmental programs for radiological surveillance of nuclear installations. (F22, C52). 466926
Pollutions associated with radioactivity. (C22). 463251
Thorium residuals in West Chicago, Illinois. (B31, B32, C52, B16). 469489
data acquisition systems
Computational systems in support of environmental sciences. (C52, F30). 480154
dosimetry
Second international intercomparison of environmental dosimeters. (E41, C55). [Data] 488233
geographical variations
Computational systems in support of environmental sciences. (C52, F30). 480154
government policies
Environmental protection and the public within the framework of energy policy. (C52, F22). 484673
information systems
Inventory of data bases, models, and graphics packages at the Pacific Northwest Laboratory. (F30). 462023
inventories
Inventory of environmental impact models related to energy technologies. (C50). 473190
mathematical models
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). [Data] 480090
Characterizing dispersion on a climatological basis. (B33, C52; Effects of climatological factors on atmospheric transport of radioactive effluents from nuclear power plants). 463023
Inventory of environmental impact models related to energy technologies. (C50). 473190
Mathematical simulation of sediment and contaminant transport in surface waters. Annual report, October 1977 - September 1978. (B32, C52). 472857
Measured weekly ⁸⁵Kr concentrations with 150 km of the Savannah River Plant (March 1975 - August 1976). (B33, C52). [Data] 487156
Measurement of fission product sorption parameters for Hanford 200 Area sediment types. Progress report. (B31, C52; Comparison of methods for determining distribution coefficients of fission products in selected sediment types at Hanford disposal sites). 465789
MESODIF-II: a variable trajectory plume segment model to assess ground-level air concentrations and deposition of effluent releases from nuclear power facilities. (B33, C52). 487157
Model evaluation for travel distances 30 to 140 km. (B33, C52; Verification of transport models using ⁸⁵Kr data at Savannah River Plant). 460934
Modeling Dresden - Monticello data for ¹³¹I transport from pasture to milk. (B31). 472836
Numerical simulation of material transport in a regional ground-water flow system. (B31, B32, C52). [Data] 479632
monitoring
Environmental monitoring report for calendar year 1978. (B32, C15, C21). 487129
A radioactive analysis laboratory for environmental protection. (C22). 463254
natural radioactivity
Harmonic analysis of the atmospheric pollution and natural radioactivity diurnal waves. (B33). 487168
pollution
Harmonic analysis of the atmospheric pollution and natural radioactivity diurnal waves. (B33). 487168
Pollutions associated with radioactivity. (C22). 463251
Time variations in environmental pollution. (B11). [Data] 472345
public relations
Citizens' initiatives participating in environmental policy. (C52). 482194
radiation hazards
Radioactivity in consumer products. (B31, C15). 494205
radiation monitoring
Annual environmental monitoring report, January - December 1978. (B33, B32, C21; Stanford Linear Accelerator Center). 479727
Computer program for monitoring sample flow from environmental surveillance activities at the Oak Ridge National Laboratory. (B33, C52, C22). 463024
Environmental radiological surveillance in perspective: the relative importance of environmental media as a function of effluent pathway and radionuclides. (C52, C22). 487460
Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
The nuclear reactor telemonitoring system in Bavaria. (C52, B33). 476679
Quality control procedures applied to environmental radioassay in Italy. (B11, B32, B33). 462669
Radiation measurements following the Three Mile Island reactor accident. (B33, B31, C52). 494239
Radioactivity standards distribution program, 1978 - 1979. Interim report, 1978 - 1979. (B33, B31, B32, D15). 487167

- Radiological surveys of Idaho phosphate ore processing - the Wet Process Plant. Technical note. (B33, B32, E52). 472870
- radioactivity**
- Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). [Data] 479691
- Environmental radioactivity in the Faroes in 1977. (B32, B33, C22). 462977
- Environmental radioactivity in Greenland 1977. (B32, B33, C22). 462976
- Environmental transport and cycling of tritium in the vicinity of atmospheric releases. (B33, C22, B32, C52; Savannah River Plant). 469567
- Measurement of environmental radioactivity. Ispra 1977. (C52). [Data] 491139
- Results of environmental radioactivity measurements in the Member States of the European Community for air - deposition - water - milk - 1977. (B30). [Data] 490756
- radionuclide migration**
- Radioecology and environmental protection. (C22). 463252
- Radionuclide transfer in the environment and modality of man contamination. (C22, C21). 466248
- thermoluminescent dosimetry**
- Evaluation of methods for the determination of x- and gamma-ray exposure attributable to a nuclear facility using environmental TLD measurements. (B33, B31, B32, C52, E41). [Data] 490846
- ENVIRONMENTAL ENGINEERING:**
- budgets**
- Environmental control technology activities of the Department of Energy in FY 1978. (C50). 473188
- quality assurance**
- Application of quality assurance human factors and reliability principles to the prevention of major environment, safety, and health incidents. (C54, C52). 461348
- reliability**
- Application of quality assurance human factors and reliability principles to the prevention of major environment, safety, and health incidents. (C54, C52). 461348
- ENVIRONMENTAL EXPOSURE CHAMBER:**
- See EXPOSURE CHAMBERS
- ENVIRONMENTAL EXPOSURE PATHWAY:**
- Expert's opinion on the population exposure in the vicinity of Gundremmingen nuclear power plant due to contamination of foodstuffs. (C52, C55, E31, C21). 469934
- comparative evaluations**
- Food chain transport of ^{210}Pb resulting from uranium milling activities. (C22, C21, C52). 473109
- food chains**
- Transuranium radionuclides in the foodchains. (C43, C55). 463324
- lead 210**
- Pathways for polonium-210 and lead-210 concentration by plants in areas of increased natural background radiation. (C22). 463256
- mathematical models**
- Principles of environmental modelling. (C55, C22). 463419
- nuclear power plants**
- Detection limits and their dose equivalents in environmental radioactivity monitoring. (C52). 491152
- plants**
- Pathways for polonium-210 and lead-210 concentration by plants in areas of increased natural background radiation. (C22). 463256
- polonium 210**
- Pathways for polonium-210 and lead-210 concentration by plants in areas of increased natural background radiation. (C22). 463256
- radioactive waste disposal**
- Progress in waste management technology. (E52). 492260
- ENVIRONMENTAL IMPACT STATEMENT:**
- (Use only for items about Environmental Impact Statements, not for documents which are such statements.)
- Environmental standard review plans for the environmental review of construction permit applications for nuclear power plants. (F22, C52). 492300
- manuals**
- Proposed format and content of environmental reports for deep geologic terminal repositories for radioactive material. (E52). 466888
- ENVIRONMENTAL IMPACTS:**
- measuring methods**
- Application of fisheries management techniques to assessing impacts: task I report. (C21, C52; Assessment of chemical, radiological, and thermal impacts of nuclear power plants on fish populations). 473073
- simulation**
- An analysis of tritium releases to the atmosphere by a controlled thermonuclear reactor. (C52). [Data] 491116
- tritium**
- An analysis of tritium releases to the atmosphere by a controlled thermonuclear reactor. (C52). [Data] 491116
- ENZYME INHIBITORS:**
- biological localization**
- Animal experiments on the pharmacokinetics of 4-amidinophenylpyruvic acid (APPA). (C21). 487300
- cushing syndrome**
- Treatment of Cushing's disease with adrenal blocking drugs and megavoltage therapy to the pituitary. (C63). 473521
- radiosensitivity**
- Conditions for inhibiting and enhancing effects of the protease inhibitor antipain on x-ray-induced neoplastic transformation in hamster and mouse cells. (C11). [Data] 487170
- Effect of tumor promoters, protease inhibitors, and repair processes on x-ray-induced sister chromatid exchanges in mouse cells. (C11). 487184
- ENZYMES:**
- See also more specific entries as listed in the INIS Thesaurus.
- biochemical reaction kinetics**
- Cancer and Toxicology Section. (C15). 472990
- Magnetic effects in cellular and molecular systems. (C11). 476499
- biological radiation effects**
- Bioenergetic processes in mitochondria and response of the system hypothalamus - hypophysis - adrenals to low doses of ionizing radiation. (C14). 466116
- Neonatal irradiation nephropathy in the growing dog. II. Plasma renin activity and arterial pressure following neonatal, sublethal, whole-body irradiation. (C14; γ rays; beagles). 479875
- early radiation effects**
- Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958
- gamma radiation**
- The effects of gamma irradiation on the production and secretion of enzymes, and on enzyme activities in barley seeds. (C13). [Data] 463093
- genetic variability**
- Enzymatic activities in ultraviolet-induced DNA degradation in *Escherichia coli*. (C12; Genetic variations in activity of exonucleases and polymerases in *E. coli* mutants). 476537
- inhibition**
- Pulse radiolysis of SeCN^- and reactions of $(\text{SeCN})_2^-$ radicals with biochemical compounds. (B14). [Data] 468933
- irradiation**
- Ionizing radiation effects on oxidizing enzyme properties. (C11). 465906
- labelling**
- Penicillinase active sites: Labelling of serine-44 in β -lactamase I by 6 β -bromopenicillanic acid. (C21). 461095
- low dose irradiation**
- Tissue proteinase and nuclease activities in exposure to low-level X-ray doses delivered under various fractionation schedules. (C14). 465992
- metabolism**
- Cancer and Toxicology Section. (C15). 472990
- microanalysis**
- Protein microanalysis in a protein-carrier complex by nitrogen isotope dilution. (B11). 468629
- moessbauer effect**
- Horseradish peroxidase compound. I. (A13). 483279
- photoreactivation**
- New light on the photoreactivating enzyme. (C11). 479782
- prenatal irradiation**
- Radiation modulation of tyrosine-alpha-ketoglutarate-aminotransferase synthesis during ontogenetic development, and presumed involvement in this process of the cAMP system. (C14). 466103
- radiation effects**
- Activity and isoenzyme spectrum of the lipid peroxide oxidation system, lipogenase, following X-ray exposure. (C11, C13). 487171
- radiation injuries**
- Pathobiochemical, hematological and immunological findings in pigs with an acute radiation syndrome showing only a few clinical symptoms. I. (C14). 463152
- radiolysis**
- Pulse radiolysis of SeCN^- and reactions of $(\text{SeCN})_2^-$ radicals with biochemical compounds. (B14). [Data] 468933
- radiosensitivity**
- Effect of oxygen on inactivation of biologically active DNA by γ rays in vitro: influence of metalloporphyrins and enzymatic DNA repair. (C11). 469601
- Potential radiosensitizing antiviral and anticancer pyrimidine nucleosides. Final report, June 1, 1974 - May 31, 1978. (B12, C60, C12). 468832
- Studies on the properties of Valyl-tRNA synthetase obtained from chicken embryo brain during development. (C14). 472945
- EOSIN:**
- excitation**
- Electronic excitation of eosin when catalyzing the oxidation of nadh and of acetoacetate in the horseradish peroxidase-manganese- O_2 system. (A12, C11). 485465
- excited states**
- Generation of excited states by peroxidase. (A12, C11). 485502
- EPIDEMIOLOGY:**
- research programs**
- Research report, for 1977 - 1978. (C60, C62). 473327
- statistics**
- A statistical method for testing epidemiological results, as applied to the Hanford worker population. (C15, C55, F31). 490985
- EPIDERMIS:**
- alpha particles**
- Alpha irradiation of the skin and the possibility of late effects. (C21, C15, C55). [Data] 461107
- biological regeneration**
- Regeneration of the epidermis and basement membrane of the planarian *Dugesia japonica* after total-body x irradiation. (C14). 479832
- delayed radiation effects**
- Role of vascular damage in the development of late radiation effects in the skin. (C14). [Data] 479831
- early radiation effects**
- Ultrastructural stereology of x-irradiated epidermis. (C14; Rats). 472948
- growth**
- Radioreceptor assay for epidermal growth factor. (C31; ^{125}I tracer technique, mice). 479977

- radiation injuries**
Growth regulation in X-irradiated mouse skin. (C14). 463130
- EPILATION:**
- radiation effects**
Effect of cobalt-60 radiation on response to endodontic therapy in monkeys. (C14, C15, C63; Simulation of effects of prior radiotherapy on subsequent dental therapy response). 461049
Radiation therapy for metastases to the base of the skull. (C15, C63). 469728
Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- EPINEPHRINE:**
See ADRENALINE
- EPIPHYSIS (BONES):**
See BONE TISSUES
- EPITAXY:**
- radiation effects**
Effects of charged particles on the epitaxy of evaporated films. (A13). 489054
- EPITHELIOMAS:**
- survival time**
Prognostic factors in epipharyngeal tumors. (C63). 494638
- EPITHELIUM:**
See also EPIDERMIS
- radiation injuries**
Radiation-induced changes of the vaginal and portio epithelium. (C15). 482061
Tight junction disruption and recovery after sublethal γ irradiation. (C14; Rats). 490969
- radiosensitivity**
Factors modifying radiosensitivity of epithelium of uterus mucous membrane. (C14). 479849
- stem cells**
Method of analysis to derive cell survival from observation of tissue damage following fractionated irradiation. (C14; Mouse foot skin reaction data are used to derive epithelial stem cell survival parameters). 479841
Practical and theoretical considerations in the use of the mouse foot system to derive epithelial stem cell survival parameters. (C14). 479823
- EPITHERMAL NEUTRONS:**
- diffusion length**
Neutron diffusion in water containing $1/v$ and non- $1/v$ absorbers. (A31). [Data] 460249
- group constants**
Epithelial few-group cross-sections for a unit cell with neutron leakage. (E21, A31). 470494
- neutron dosimetry**
A flat energy response dosimeter in the epidermal region. (E41). 495082
- transmission**
Calculation of neutron transmission through boral shielding material. (A31, A32; 0.025 to 0.125 eV). 460251
- EPITHERMAL REACTORS:**
See also more specific entries as listed in the INIS Thesaurus.
- moderators**
Process for increasing the reactivity of thermal and epithermal reactors using heavy elements. (E36). 492034
- EPOXIDES:**
See also ARALDITE
- chemical radiation effects**
Mechanism of oligomer chemical transformations during transition in space laced structure. (B14). 479304
Radiation-induced free radicals of epoxy resin. (B14; Gamma radiation). 486767
- compression strength**
Powder-filled epoxy resin composites of adjustable thermal contraction. (E12). 491516
- morphological changes**
Morphology of rubber modified epoxy encapsulants. (B24). 487005
- physical properties**
Accelerated thermal aging of rubber modified epoxy encapsulants. (B24). 487006
- physical radiation effects**
Effect of synchrotron radiation on Main Ring magnets. (E16, B25). 473710
Effects of radiation on TFTR coil materials. (A14, B25). [Data] 475054
Radiation effects on organic insulators for superconducting magnets. Annual progress report for period ending September 30, 1978. (B25, E12). 465727
- surface coating**
Stress relief of ceramic components in high voltage assemblies. Final report. (B23). 465691
- tensile properties**
Powder-filled epoxy resin composites of adjustable thermal contraction. (E12). 491516
- EPOXY COMPOUNDS:**
See EPOXIDES
- EPR:**
See ELECTRON SPIN RESONANCE
- EPSILON RESONANCES:**
See ETA-700 RESONANCES
- EPSTEIN-BARR VIRUS:**
See ONCOGENIC VIRUSES
- EQUATIONS:**
See also more specific entries as listed in the INIS Thesaurus.
- EQUATIONS (DIFFERENTIAL):**
See DIFFERENTIAL EQUATIONS

EQUATIONS OF MOTION:

- analytical solution**
Presymplectic Hamilton and Lagrange systems, gauge transformations and the Dirac theory of constraints. (A11). 483032
- symmetry groups**
Non-invariance symmetries and constants of the motion. (A11). 488666
- EQUATIONS OF STATE:**
- adiabatic processes**
Adiabatic equations of state for intense relativistic particle beams. (A14). 485807
- partition functions**
Equation of state for sub-stoichiometric urania using significant structures theory. (B12, E11, B16). 465308
- uranium oxides**
Equation of state for sub-stoichiometric urania using significant structures theory. (B12, E11, B16). 465308
- EQUATORIAL ELECTROJETS:**
See ELECTROJETS
- EQUILIBRIUM:**
See also THERMAL EQUILIBRIUM
- EQUILIBRIUM PLASMA:**
- Equilibrium properties of two-component plasmas. (A14). 467533**
- asymmetry**
Toroidal equilibria with z asymmetric cross section. (A14). 485788
- beam extraction**
Extraction of aberrationless high-perveance ion beams from a quiescent equilibrium plasma. (A14). 489374
- electrodynamics**
Foundations of plasma electrodynamics. (A14). 485648
- finite element method**
Numerical analysis of MHD equilibria (fundamental considerations). (A14). 467590
- kinetic equations**
Kinetic theory of the ponderomotive effects in a plasma. (A14). 464385
- [Data]
- magnetic fields**
Equilibrium properties of a rotating ion layer in a uniform external magnetic field. (A14). 462342
- magnetohydrodynamics**
On the stability of dissipative MHD equilibria. (A14). 483404
Stochastic stability of MHD equilibria. (A14). 483403
- mathematical models**
Equilibrium and stability in strongly inhomogeneous plasmas. (A14). 492799
A model of complete steady state in hot homogeneous plasma. (A14). 464457
- nonlinear problems**
Integral invariants and quasi-MHD nonlinear dissipation. (A14). 489267
- partition functions**
Formation of composites in equilibrium plasmas. (A14). 467672
- plasma instability**
Comments on "Magnetohydrodynamic equilibrium of plasma confined in a spherical microwave cavity". (A14). 478062
Reply to comments by Albert J. Hatch. (A14). 478194
- plasma macroinstabilities**
New results in high beta MHD theory. Part III. MHD equilibrium and stability of minimum-B mirror traps. (A14). 464335
- plasma waves**
Kinetic theory of the ponderomotive effects in a plasma. (A14). 464385
- [Data]
- rotation**
Astron type equilibrium in the absence of an applied magnetic field. (A14). 475060
Equilibrium properties of a rotating ion layer in a uniform external magnetic field. (A14). 462342
- stability**
On the stability of dissipative MHD equilibria. (A14). 483404
Stochastic stability of MHD equilibria. (A14). 483403
- synchrotron radiation**
Synchrotron radiation from high temperature plasmas. (A14). 462269
Synchrotron radiation from high temperature plasmas. (A14). 485690
- thermodynamic properties**
Equilibrium properties of two-component classical plasmas. (A14). 467534
- tokamak devices**
Ballooning modes and pressure limits in tokamaks. (A14). 459923
Resistive steady states of elliptical cross-section plasmas. (A14). 489156
- EQUIPMENT INTERFACES:**
- camac system**
CAMAC computer interfaces developed at the High Energy Physics Laboratory, JINR. (E42). 477429
- control systems**
A digital and analog interface for data processing in the line shape study of PQR lines. (E41). 474050
- logic circuits**
High speed CAMAC differential branch highway driver. (E42, E13, E16). 492208
- scanning measuring projectors**
Hardware of the POISK installations for operation in the dialog regime with BESM-4 and BESM-6 computers. (F51). 488512
- specifications**
A digital and analog interface for data processing in the line shape study of PQR lines. (E41). 474050
Parallel preprocessing in a nuclear data acquisition system. (E42). 471011

EQUIPMENT PROTECTION DEVICES:See also **CIRCUIT BREAKERS****direct current**

On electric protection of stable current supplies controlled with power saturation choke coils. (E42, E16). 477432

specifications

Rotation sensor switch. (E13; Patent). 470347

EQUIVALENCE PRINCIPLE:**accuracy**

A test of the equivalence principle using a space-borne clock. (A11). 471304

induction

On the experimental check-up of the equivalence principle. (A11). 467138

EQUIVALENT CIRCUITS:**specifications**

Design of rf power amplifiers (high and low Q) and lumped equivalent circuits of transmission lines with NMR applications. (E41). 461849

EQUIVALENT-PHOTON APPROXIMATION:**electron-positron interactions**

Substantiation of possibility of double using the equivalent-photon approximation when studying exclusive reactions. (A33). 475785

photon-photon interactions

Substantiation of possibility of double using the equivalent-photon approximation when studying exclusive reactions. (A33). 475785

ERBIUM:**absorption spectra**

Optical absorption of erbium in paramagnetic and antiferromagnetic states. (A13). 489007

Systematic comparisons between the 4d spectra of lanthanide atoms and solids. (A12). [Data] 488888

compression

Specific heat and compression curves of erbium. (B22). 472670

crystal growth

Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24). 479353

electron spin resonance

Novel measurement of proton distribution and site energies in metal hydrides. (B23). 472705

electronic structure

Optical absorption of erbium in paramagnetic and antiferromagnetic states. (A13). 489007

grueneisen constant

Temperature dependence of the Anderson-Grueneisen parameter delta of Co, Ru, and Er. (B22). 479438

magnetic properties

Phonon spectroscopy and forbidden transitions in rare earths and transition metal ferromagnets. (B22). 479373

neutron reactions

Study of the systematics for (n,n) reactions. (A34; 14.8 MeV). 460363

physical radiation effects

Defect annealing in the hexagonal close packed heavy rare earth metals Gd, Tb, Dy, Ho, Er, Tm and Lu after electron irradiation at low temperatures. (B25). [Data] 469420

quantitative chemical analysis

Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676

solvent extraction

Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704

specific heat

Magnetic contribution to the specific heats of gadolinium, dysprosium and erbium. (B22). 469271

Specific heat and compression curves of erbium. (B22). 472670

temperature dependence

Temperature dependence of the Anderson-Grueneisen parameter delta of Co, Ru, and Er. (B22). 479438

vapor condensation

Laser evaporation and condensation of Er in hydrogen and inert atmosphere. (B21). 469072

ERBIUM ADDITIONS:**electron spin resonance**

Effects of pressure in the paramagnetic resonance spectra of the Er in thin films of Au and Ag. (A13). 471519

gadolinium alloysESR bottleneck of Er and Dy-doped GdAl₂. (A13). 477861**infrared spectra**Infrared excitation spectra of visible luminescence of luminophores doped with Yb³⁺ and Er³⁺ ions. (B12). 468695**ERBIUM ALLOYS:****anisotropy**Effect of rare earth and transition metal substitution on the anisotropy of R₂Co₇ compounds (R = Er, Tm, Yb). (B22). 479423**catalysis**

Intermetallic compounds as catalysts for hydrogenation of carbon oxides. (B22). 479384

charged-particle transportLAMPF results on μ^+ diffusion in metals. (A32, B22; Depolarization rate). 486177**coercive force**Temperature dependence of coercivity in some rare-earth-Fe₂ intermetallic compounds. (B22). 476239**crystal field**Indirect evidence for exchange modification of the conduction bands in RAl₂ compounds. (B22). 490571**domain structure**

Preferred domain orientation and microstructural defects in ErZn. (A13). 471419

electron spin resonance

An EPR study of defects in dilute Au:Er alloys. (A13). 464207

exchange interactionsIndirect evidence for exchange modification of the conduction bands in RAl₂ compounds. (B22). 490571**ion implantation**

Ion implanted surface alloys in nickel. (A13). [Data] 471561

magnetic propertiesMagnetic interactions in R₂Mn₂₃ rare earth intermetallics. (B22). 479383Magnetic properties of R₃Pt₄ intermetallic compounds. (B22). 479392Sublattice magnetization of ErFe₂-H. (B22, B12). 479440

Ternary and quaternary rare earth cobalt magnetic materials with low reversible temperature coefficients. (B22). 479399

magnetizationEffect of rare earth and transition metal substitution on the anisotropy of R₂Co₁₇ compounds (R = Er, Tm, Yb). (B22). 479423

Preferred domain orientation and microstructural defects in ErZn. (A13). 471419

magnetostrictionMagnetostriction of single crystals of intermetallic R₂Co₁₇ (R = Ho, Er, Tm, Lu) compounds. (B12). 475940**neutron diffraction**Neutron study of the magnetic correlations in amorphous ErCo₂. (A13). 481075Neutron study of the magnetic correlations in amorphous ErCo₂. (A13). 481076**superconductivity**Magnetic ordering of Gd/sub x/Er/sub 1-x/Rh₄B₄ near the superconducting region. (B22, A17). 469213**ERBIUM BORIDES:****ferromagnetism**The effect of damage on the superconducting and magnetic transitions in ErRh₄B₄. (B25). [Data] 469457**magnetic moments**

Magnetic interactions in ternary superconductors. (A17, B24). 475497

magnetic propertiesHigh pressure study of the superconducting and magnetic transitions of Ersub(1-x)Gdsub(x)Rh₄B₄. (B24, A17). 472715

Magnetic interactions in ternary superconductors. (A17, B24). 475497

magnetizationMagnetic ordering of Gd/sub x/Er/sub 1-x/Rh₄B₄ near the superconducting region. (B23, A17). 479493**magnetostriction**Superconducting and magnetic properties of ErRh₄B₄. (B22, A17). 472663**neutron diffraction**Neutron scattering study of the magnetic transition in the reentrant superconductor Ho_{0.4}Er_{0.6}Rh₄B₄. (B23, A17). 490668**phase transformations**Neutron scattering study of the magnetic transition in the reentrant superconductor Ho_{0.4}Er_{0.6}Rh₄B₄. (B23, A17). 490668

Specific-heat anomalies at the lower critical temperature in reentrant ferromagnetic superconductors. (B23). 479497

specific heat

Specific-heat anomalies at the lower critical temperature in reentrant ferromagnetic superconductors. (B23). 479497

superconductivityThe effect of damage on the superconducting and magnetic transitions in ErRh₄B₄. (B25). [Data] 469457

Mossbauer studies of ternary superconductors. (B22, A17). 469207

Neutron scattering observations on the magnetic phases of rare earth ternary superconductors. (B22, A17). 465629

A new phase in the magnetic superconductors. (A17). 481337

Superconducting and magnetic properties of ErRh₄B₄. (B22, A17). 472663**superconductors**

Helical order of spins in superconductors. (B22, A17). 462859

transition temperatureHigh pressure study of the superconducting and magnetic transitions of Ersub(1-x)Gdsub(x)Rh₄B₄. (B24, A17). 472715**ERBIUM BROMIDES:****lattice vibrations**

Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). [Data] 478899

ERBIUM CHLORIDES:**chemical preparation**

A convenient synthesis of lanthanoid trihalides in tetrahydrofuran. (B12). 481661

chemical reactions

Interaction of rare-earth chlorides with aluminium chlorides during rare element raw materials processing. (B12). 479002

lattice vibrations

Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). [Data] 478899

ERBIUM COMPLEXES:**chemical preparation**

A convenient synthesis of lanthanoid trihalides in tetrahydrofuran. (B12). 481661

Investigation of different-ligand complexes of holmium and erbium with NTA and carbonate ion. (B12). 493669

Uranyl and lanthanide complexes of the 1,2-dipyridylethylene

- isomers. (B12, B13). [Data] 481690
- chemical reaction kinetics**
- Erbium(III) complexation with bromide and iodide ions in aqueous methanol. (B12). 493708
- potentiometry**
- Complex formation of trace elements in geochemical systems. (B12, B31). [Data] 460440
- precipitation**
- The precipitation of lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468838
- solvent extraction**
- Extraction of lanthanoids from hydrochloric and nitric acid solutions by Di(2-ethylhexyl)phosphoric acid. (B12). [Data] 475963
- Investigation of reaction of yttrium subgroup rare earth ions with some triphenylmethane dyes. (B12, B11). 493559
- ERBIUM COMPOUNDS:**
- See also *ERBIUM BORIDES; ERBIUM BROMIDES; ERBIUM CHLORIDES; ERBIUM FLUORIDES; ERBIUM HYDRIDES; ERBIUM OXIDES; ERBIUM SELENIDES; ERBIUM SULFATES; ERBIUM SULFIDES*
- chemical reactions**
- Investigation into interaction of carbamide acetamide and thiocarbamide with erbium acetate in aqueous medium. (B12). 476035
- Investigation of reaction of yttrium subgroup rare earth ions with some triphenylmethane dyes. (B12, B11). 493559
- crystal field**
- Neutron scattering studies of crystal field excitations in (RE)Mo₂Se₃. (B24, A17). 479522
- nuclear magnetic resonance**
- Temperature dependence of magnetization and nuclear magnetic resonance frequencies of Ce³⁺ in yttrium and erbium orthochromites. (A13). 492647
- specific heat**
- Heat capacity and thermal diffusivity of ScD/sub x/ and ErD/sub x/. (B23). 479500
- stimulated emission**
- Stimulated emission at 0.85, 1.73 and 2.8 μm waves at 300 deg K of crystals KY(WO₄)₂-Er³⁺. (B12). 475978
- thermal diffusion**
- Heat capacity and thermal diffusivity of ScD/sub x/ and ErD/sub x/. (B23). 479500
- ERBIUM FLUORIDES:**
- chemical reactions**
- Complex formation of trace elements in geochemical systems. (B12, B31). [Data] 460440
- formation heat**
- The enthalpy of formation of erbium trifluoride. (B12). [Data] 481673
- phase diagrams**
- Physicochemical investigation of ternary system containing rubidium, cesium hexafluoroerbiates and rubidium hexafluoroaluminates. (B12). 478892
- ERBIUM HYDRIDES:**
- crystal growth**
- The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). [Data] 467414
- fabrication**
- Effects of vacuum processing erbium dideuteride/ditritide films deposited on chromium underlays on copper substrates. (B23, B21, D22). 486967
- Effects of vacuum processing erbium dideuteride/ditritide films deposited on chromium underlays on copper substrates. (B23). 476366
- lattice parameters**
- Low temperature magnetic properties of the hydrides and deuterides of Er(Fe/sub 1-x/Mn/sub x/). (B23). 479504
- Sublattice magnetization of ErFe₂-H. (B22, B12). 479440
- magnetic properties**
- Low temperature magnetic properties of the hydrides and deuterides of Er(Fe/sub 1-x/Mn/sub x/). (B23). 479504
- Magnetic properties of dihydrides and dideuterides of Er and Ho. (B23). 479487
- magnetization**
- Sublattice magnetization of ErFe₂-H. (B22, B12). 479440
- microstructure**
- The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). [Data] 467414
- ERBIUM IONS:**
- cathodoluminescence**
- Luminescence centres with cubic symmetry in erbium-implanted zinc sulphide. (A12). 459778
- electron spin resonance**
- EPR investigation of Er³⁺, Nd³⁺ and Ho³⁺ in ThGeO₄. (A13). 477852
- Low symmetry effects in EPR spectrum of KY(MoO₄)₂+Er³⁺. (A13). 477960
- exchange interactions**
- Indirect evidence for exchange modification of the conduction bands in RAl₂ compounds. (B22). 490571
- ion implantation**
- Ion implanted surface alloys in nickel. (A13). [Data] 471561
- jahn-teller effect**
- On the dynamic Jahn-Teller effect of Er³⁺ in Pd-Er. (A13). 477869
- spin-lattice relaxation**
- Phase relaxation of Er³⁺ ions in CdMoO₄ monocrystals. (A13). 485614
- ERBIUM ISOTOPES:**
- See also *ERBIUM 150; ERBIUM 153; ERBIUM 154; ERBIUM 156; ERBIUM 157; ERBIUM 158; ERBIUM 159; ERBIUM 160; ERBIUM 161; ERBIUM 162; ERBIUM 164; ERBIUM 166; ERBIUM 167; ERBIUM 168;*
- ERBIUM 169; ERBIUM 170*
- ERBIUM OXIDES:**
- chemical preparation**
- Synthesis and investigation of erbium-containing quaternary oxides. (B12; Erbium quaternary oxides-AErBB'O₇, where A-Pb, Cd, Mg, Ca, Sr; B-Ti, Zr, Hf, Sn; B'-Nb, Ta). 478909
- comparative evaluations**
- Characterization of metastable tetragonal hafnia. (B23). 479490
- crystal growth**
- Flux growth of double oxides of niobium and rare-earth elements (Ln₂NbO₇). (B12). [Data] 481697
- electric conductivity**
- Effect of nonstoichiometry on the electrical conductivity or erbium oxide films. (A13). 462233
- electron diffraction**
- Electron microscope studies of phase transformation in erbium oxide films. (B12). 481688
- interatomic distances**
- Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
- neel temperature**
- Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
- phase transformations**
- Electron microscope studies of phase transformation in erbium oxide films. (B12). 481688
- spin orientation**
- Surface acoustic wave propagation near the spin reorientation phase transition of ErFeO₃. (A13). 464159
- ERBIUM SELENIDES:**
- magnetic susceptibility**
- Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- specific heat**
- Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- superconductivity**
- Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- ERBIUM SULFATES:**
- chemical preparation**
- Sulfato-molybdates in the systems of Ln₂(MoO₄)₃-Ln₂(SO₄)₃, where Ln -Tb, Dy, Ho and Er. (B12). 476113
- ERBIUM SULFIDES:**
- chemical preparation**
- Synthesis and radiographic study of erbium sulfides. (B12). 475946
- electric conductivity**
- Heat carrier scattering in monosulfides of three-valent rare-earth elements (low temperatures). (B12). 476096
- thermal conductivity**
- Heat carrier scattering in monosulfides of three-valent rare-earth elements (low temperatures). (B12). 476096
- ERBIUM 150:**
- high spin states**
- Search for high-spin isomeric states in the rare-earth region. (A34). 490174
- ERBIUM 153:**
- high spin states**
- High spin isomers in ¹⁵³Er. (A34). 465109
- Search for high-spin isomeric states in the rare-earth region. (A34). 490174
- ERBIUM 154:**
- energy levels**
- Nuclear data sheets for A=154. (A33). 478631
- energy-level transitions**
- Nuclear data sheets for A=154. (A33). 478631
- high spin states**
- High spin states in ¹⁵⁴Er. (A34). 472222
- Lifetimes of high-spin yrast states in ¹⁵⁴Er. (A34). 472223
- Lifetimes of high-spin yrast states in ¹⁵⁴Er. (A34). 465076
- Spectroscopy of heavy nuclei: yrast states, side bands and backbending. (A34; Transitions). [Data] 486461
- multipole transitions**
- Irregularities in side-feeding patterns, energies, and multipolarities in the ¹⁵⁴Er yrast cascade to spin 36. (A34). 475789
- yrast states**
- Irregularities in side-feeding patterns, energies, and multipolarities in the ¹⁵⁴Er yrast cascade to spin 36. (A34). 475789
- Lifetimes of high-spin yrast states in ¹⁵⁴Er. (A34). 472223
- Spectroscopy of heavy nuclei: yrast states, side bands and backbending. (A34; Transitions). [Data] 486461
- ERBIUM 156:**
- high spin states**
- Linear polarization of the gamma-ray continuum feeding high-spin states in ¹⁵⁶⁻¹⁵⁸Er and ¹⁵¹⁻¹⁵²Dy. (A34). 465230
- ERBIUM 157:**
- high spin states**
- Linear polarization of the gamma-ray continuum feeding high-spin states in ¹⁵⁶⁻¹⁵⁸Er and ¹⁵¹⁻¹⁵²Dy. (A34). 465230
- ERBIUM 158:**
- backbending**
- Behavior of the moment of inertia curve in a recrossing of the ground state band and the superband in ¹⁵⁸Er. (A33). 478618
- Second backbending in ¹⁵⁸Er. (A33). 468262
- energy levels**
- Nuclear spectroscopic studies. (A34; Summaries of research activities at Univ. of Tennessee). [Data] 486341

- energy spectra**
Effect of number conservation on energy spectra of sup(158,160)Er. (A33). 472159
- high spin states**
Anomaly of high spin states. (A33). 468405
The behaviour of the moment of inertia curve in a recrossing of the ground state band and the super band in ¹⁵⁸Er. (A33). 475717
Effect of number conservation on high spin states and nuclear deformation. (A33). 490068
Linear polarization of the gamma-ray continuum feeding high-spin states in ¹⁵⁸⁻¹⁵⁹Er and ¹⁵¹⁻¹⁵²Dy. (A34). 465230
- moment of inertia**
Behavior of the moment of inertia curve in a recrossing of the ground state band and the superband in ¹⁵⁸Er. (A33). 478618
Nuclear spectroscopic studies. (A34; Summaries of research activities at Univ. of Tennessee). [Data] 486341
- ERBIUM 159:**
excited states
Measurement of lifetimes of ¹⁵⁹Er and ¹⁶¹Er excited states. (A34). [Data] 493335
- ERBIUM 160:**
energy spectra
Effect of number conservation on energy spectra of sup(158,160)Er. (A33). 472159
- high spin states**
Effect of number conservation on high spin states and nuclear deformation. (A33). 490068
- ERBIUM 161:**
excited states
Measurement of lifetimes of ¹⁵⁹Er and ¹⁶¹Er excited states. (A34). [Data] 493335
- ERBIUM 162:**
deformed nuclei
Application of exact angular momentum projection to excited bands in strongly deformed nuclei. I. (A33). 478655
- high spin states**
Effect of number conservation on high spin states and nuclear deformation. (A33). 490068
- rotational states**
Numerical aspects of angular momentum projection for rotational nuclei. (A33). 483736
- slater method**
Numerical aspects of angular momentum projection for rotational nuclei. (A33). 483736
- spin**
Spins, high spins, very high spins. (A33). 464981
- ERBIUM 164:**
energy levels
Nuclear spectroscopic studies. (A34; Summaries of research activities at Univ. of Tennessee). [Data] 486341
- nuclear magnetic moments**
Electromagnetic moments and transitions in deformed nuclei. (A34). [Data] 486397
- ERBIUM 166:**
e2-transitions
Low lying spectra and electromagnetic transitions for ¹⁶⁴Dy, ¹⁶⁶Er, and ¹⁶⁸Yb nuclei. (A33). [Data] 465016
- magnetic dipole moments**
Current densities in the projected Hartree-Fock approach. I. Magnetic moments. (A33). 490089
- mixing ratio**
Spin dependence of E2/M1 admixtures in ¹⁶⁶Er. (A34). 465171
- moessbauer effect**
Moessbauer studies of ternary superconductors. (B22, A17). 469207
Moessbauer studies of dilute erbium impurities in zirconium hydrides. (B23). 469388
- rotational states**
Low lying spectra and electromagnetic transitions for ¹⁶⁴Dy, ¹⁶⁶Er, and ¹⁶⁸Yb nuclei. (A33). [Data] 465016
- ERBIUM 166 TARGET:**
krypton 86 reactions
Evidence for statistical equilibrium of the fragment isobaric distributions in strongly damped collisions of ⁸⁶Kr with ¹⁶⁶Er. (A34). 478729
- ERBIUM 167:**
excited states
Influence of Coriolis coupling on inelastic scattering of deuterons. (A33, A34). [Data] 475752
- magnetic dipole moments**
Current densities in the projected Hartree-Fock approach. I. Magnetic moments. (A33). 490089
- mass**
Atomic masses of selected isotopes of erbium, hafnium, and osmium. (A34). 490176
- ERBIUM 167 TARGET:**
neutron reactions
Spin dependence of the total neutron cross section of ¹⁶⁷Er in the neutron energy range up to 100 keV. (A34). 486309
- triton reactions**
Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343
- ERBIUM 168:**
internal conversion
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236
- atomic masses**
Atomic masses of selected isotopes of erbium, hafnium, and osmium. (A34). 490176
- ERBIUM 168 TARGET:**
triton reactions
Levels in ¹⁶⁷ ¹⁶⁹Ho populated in the (t(pol), α) reaction. (A34). 462635
- Levels in ¹⁶⁷ ¹⁶⁹Ho populated in the (t(pol), α) reaction. (A34). 462635**
- ERBIUM 169:**
rheumatic diseases
Erbium-169 versus triamcinolone hexacetone in the treatment of rheumatoid finger joints. (C64). [Data] 473532
- ERBIUM 170:**
high spin states
High spin states in neutron rich rare earth nuclei. (A34). 465103
- EROSION:**
containers
Clay particle redistribution and piping phenomena in bentonite/quartz buffer material due to high hydraulic gradients. (E52, B31). [Data] 461979
- physical radiation effects**
Influence of surface morphology on the low energy hydrogen ion erosion yields of beryllium. (B25). 469438
- ERUPTIVE VARIABLE STARS:**
emission spectra
Spectroscopic observations of CH Cygni during the 1977-1978 outburst. (A15). 485929
- ERYTHEMA:**
radiation effects
Influence of localized preinoculation irradiation of the foot on lymphatic metastasis from a primary tumor growing in the foot. (C14, C63). 476567
- ERYTHROBLASTS:**
See BONE MARROW CELLS
- ERYTHROCYTES:**
azides
Enhanced radiation damage to the erythrocyte membrane in the presence of azide and other anions. (C11). 494272
- biological radiation effects**
Changes of adenylate energy charge of hog blood lymphocytes, platelets and erythrocytes following gamma irradiation. (C11). 469586
- The state of some enzyme systems of the riboso-5-phosphate metabolism in erythrocytes of irradiated animals. (C14). 484513
- contrast media**
Effect of ionic and non-ionic contrast media on red cell aggregation in vitro. (C61). 480207
- fast neutrons**
'Repair' of fast-neutron and X-ray-induced damage to the permeabilities of red blood cells to sodium and potassium ions and its promotion by ghosts. (C11). [Data] 463059
- immune reactions**
In vitro suppression of spontaneous erythrocyte autoimmune responses with lymphocytes activated with concanavalin A. (C11). 460990
- kinetics**
Erythrokinetics in mice bearing tumours in either preirradiated or unirradiated tissue. (C14). [Data] 463134
- labelling**
Binding of sup(99m)Tc to erythrocytes using different labelling techniques. (B13). 462763
Demonstration of bleeding site by /sup 99m/Tc-labeled red cells. (C62, C61, C31). 487738
Long-term study of sup(99m)Tc red blood cell labelling by the pyrophosphate. Sn-Tc-complex method. (B13, C31). 484082
Radioactive indium labelling of the figured elements of blood. Method, results, applications. (B13, C62). 484073
Simple method of spleen imaging with /sup 99m/Tc-labeled erythrocytes. (C62, B13). 487674
- life span**
Erythrocyte life span and sequestration studies with ⁵¹Cr in Kala Azar. (C45). 482174
- radiation effects**
Changes in surface properties and DNA-loading capacity of irradiated human erythrocytes. (C11). 465913
- radiation injuries**
Calcium-dependent process in reduction of cell surface charge after X-irradiation. (C11). 463056
Enhanced radiation damage to the erythrocyte membrane in the presence of azide and other anions. (C11). 494272
- radioimmunoassay**
Application of human erythrocytes to a radioimmune assay of immune complexes in serum. (C45; Lupus erythematosus, type B hepatitis). 487382
- response modifying factors**
Enhanced radiation damage to the erythrocyte membrane in the presence of azide and other anions. (C11). 494272
- technetium 99**
Detection of deep venous thrombosis by scanning of sup(99m)technetium-labelled red-cell venous pool. (C62). 476782
- uses**
Demonstration of bleeding site by /sup 99m/Tc-labeled red cells. (C62, C61, C31). 487738
- x radiation**
'Repair' of fast-neutron and X-ray-induced damage to the permeabilities of red blood cells to sodium and potassium ions and its promotion by ghosts. (C11). [Data] 463059
Radiation effects on erythrocyte membrane structure studied by the intrinsic fluorescence. (C11). [Data] 490936
- ERYTHROPOIESIS:**
anemias
Quantitation of erythropoiesis in myelomatosis. (C21). 479933

- biological radiation effects**
Kinetic basis for compensated hemopoiesis during continuous irradiation with low doses. (C14; γ rays; mice). [Data] 476556
- iron 59**
Ineffective erythropoiesis in myelofibrosis: ferrokinetics, bone marrow pathology and cytology. (C31). 491068
- scintiscanning**
Exploration of erythropoiesis sites. (C62). 491317
- ESARDA:**
(European Safeguards Research and Development Association.)
European safeguards research and development. (F42). 463827
- nondestructive analysis**
Established applications of non-destructive techniques for nuclear materials measurements control or verification; reported to ESARDA. (F41). 480929
- ESCAPE PEAKS:**
energy losses
Escape peak losses in Si(Li) detectors. (E41). [Data] 474124
- ESCAR STORAGE RING:**
(Experimental Superconducting Accelerating Ring at Berkeley)
research programs
Advanced accelerator development. (E16). 480412
- superconducting magnets**
An experimental study of gas-cooled current leads for superconducting magnets. (E16, E12). 491687
- ESCHERICHIA COLI:**
anoxia
Effect of lipophilicity of nitroimidazoles on radiosensitization of hypoxic bacterial cells in vitro. (C11). 494253
- antimitotic drugs**
Radiosensitization of *E. coli* B/r by the cytotoxic agent procarbazine: a hypoxic cell sensitizer preferentially toxic to aerobic cells and easily oxidized. (C12). 494282
- beta particles**
The response of *E. coli* Bsub(s-1) to tritium- β particles under aerated and anoxic conditions. (C12). [Data] 463071
- biochemical reaction kinetics**
Photocross-linking analysis of the contact surface of tRNA in complexes with *Escherichia coli* methionine: tRNA ligase. (C11; UV radiation). 472918
- biochemistry**
Genetic variability of *E. coli* in southeastern reservoirs. (C52, B32). [Data] 480087
- biological effects**
Nature of transforming deoxyribonucleic acid in calcium-treated *Escherichia coli*. (C12). 487198
- biological radiation effects**
Repair of ultraviolet light-damaged deoxyribonucleic acid in sbcA strains of *Escherichia coli* K-12. (C12). [Data] 479804
- biological radiation effects**
DNA repair. (C12; UV radiation). 487195
- Effect of host lex, recA, recF, and uvrD genotypes on the ultraviolet light-protecting and related properties of plasmid R46 in *Escherichia coli*. (C12). [Data] 472936**
- Effect of membrane fatty acid composition on the radiosensitivity of *E. coli* K-1060. (C12). 469620**
- Identification of the ftsA gene product. (C12; uv radiation, *Escherichia coli*). [Data] 479797**
- Involvement of DNA gyrase in replication and transcription of bacteriophage T7 DNA. (C12; Uv radiation, *Escherichia coli*). [Data] 461011**
- Ionizing radiation damage to the folded chromosome of *Escherichia coli* K-12: sedimentation properties of irradiated nucleoids and chromosomal deoxyribonucleic acid. (C12; Gamma radiation). 487200**
- Ionizing radiation damage to the folded chromosome of *Escherichia coli* K-12: repair of double-strand breaks in deoxyribonucleic acid. (C12; Gamma radiation). [Data] 487201**
- Multiple loci affecting photoreactivation in *Escherichia coli*. (C12; uv radiation). 487199**
- Radiosensitization, mutagenicity, and toxicity of *Escherichia coli* by several nitrofurans and nitroimidazoles. (C12; X radiation). 469607**
- Thermoresistant revertants of an *Escherichia coli* strain carrying tif-1 and ruv mutations: non-suppressibility of ruv by sfi. (C12; UV radiation). [Data] 479799**
- biological repair**
Recombinational repair: photoproducts causing recombination in the absence of DNA replication. (C11, C12). 479751
- Repair processes and dose response curves in UV mutagenesis of bacteria. (C11, C12). 479742**
- Sensitization and repair in U.V. irradiated bacteria. (C12). 479793**
- carboxylic acids**
Influence of unsaturated fatty acids, membrane fluidity and oxygenation on the survival of an *E. coli* fatty acid auxotroph following γ -irradiation. (C12). 494284
- chemiluminescence**
Chemiluminescence from non-bioluminescent bacteria: the importance of redox state and oxygen. (C12, A12). 487190
- chlorpromazine**
Hypoxic cytotoxicity of chlorpromazine and the modification of radiation response in *E. coli* B/r. (C11). 463057
- chromosomes**
A simple autoradiographic method for investigating long range chromosome substructure: size and number of DNA molecules in isolated nucleoids of *Escherichia coli*. (C31). [Data] 491078
- gamma radiation**
The distinction between the roles of O_2 and of O_2^- in biological radiodamage. (C12). 463074
- genetic radiation effects**
Prior irradiation can sensitize or protect bacterial cells from subsequent irradiation. (C11, C12). 479781
- genetic variability**
Genetic variability of *E. coli* in southeastern reservoirs. (C52, B32). [Data] 480087
- growth**
The effect of growth rate on the sensitivity of *Escherichia coli* K12 to DNA crosslinks induced by psoralen plus near ultraviolet light. (C12). 463076
- lethal irradiation**
Relative effectiveness of the 300-320 nm spectral region of sunlight for the production of primary lethal damage in *E. coli* cells. (C12). 484481
- mutagenesis**
Repair processes and dose response curves in UV mutagenesis of bacteria. (C11, C12). 479742
- Ultraviolet mutagenesis in bacteria: the nature of error-prone repair. (C11, C12). 479786**
- mutants**
DNA synthesis in UV-irradiated *Escherichia coli* K-12 strains carrying dnaA mutations. (C12). 469613
- mutations**
DNA repair. (C12; UV radiation). 487195
- Identification of the ftsA gene product. (C12; uv radiation, *Escherichia coli*). [Data] 479797**
- Penicillin selection of *Escherichia coli* deoxyribonucleic acid repair mutants. (C12; UV radiation). [Data] 487194**
- Thermoresistant revertants of an *Escherichia coli* strain carrying tif-1 and ruv mutations: non-suppressibility of ruv by sfi. (C12; UV radiation). [Data] 479799**
- near ultraviolet radiation**
The effect of growth rate on the sensitivity of *Escherichia coli* K12 to DNA crosslinks induced by psoralen plus near ultraviolet light. (C12). 463076
- phosphotransferases**
Photochemical studies and ultraviolet sensitization of *Escherichia coli* Thymidylate kinase by various halogenated substrate analogs. (C11). 469578
- photoreactivation**
Multiple loci affecting photoreactivation in *Escherichia coli*. (C12; uv radiation). 487199
- Photoreactivation of ionizing-radiation-induced damage in *E. coli*. (C12). 490942**
- rabbits**
Haematologic effect and Shwartzman reactivity of radiodetoxified endotoxin. (C11). 476525
- radiosensitivity**
Influence of unsaturated fatty acids, membrane fluidity and oxygenation on the survival of an *E. coli* fatty acid auxotroph following γ -irradiation. (C12). 494284
- Prior irradiation can sensitize or protect bacterial cells from subsequent irradiation. (C11, C12). 479781**
- Radioreistance of cells of different *E. coli* strains and their endogenous serotonin content. (C12). 484484**
- Relative rates of repair of single-strand breaks and postirradiation DNA degradation in normal and induced cells of *Escherichia coli*. (C12; uv radiation). 469618**
- X-ray sensitivity of *Escherichia coli* lysogenic for bacteriophage ϕ 21. (C12). 461014**
- radiosensitizers**
Effect of lipophilicity of nitroimidazoles on radiosensitization of hypoxic bacterial cells in vitro. (C11). 494253
- Radiosensitization of *E. coli* B/r by the cytotoxic agent procarbazine: a hypoxic cell sensitizer preferentially toxic to aerobic cells and easily oxidized. (C12). 494282**
- respiration**
Radiosensitization of *E. coli* B/r by the cytotoxic agent procarbazine: a hypoxic cell sensitizer preferentially toxic to aerobic cells and easily oxidized. (C12). 494282
- survival curves**
Influence of unsaturated fatty acids, membrane fluidity and oxygenation on the survival of an *E. coli* fatty acid auxotroph following γ -irradiation. (C12). 494284
- The relation between survival and the initial yield of DNA strand breaks for *E. coli* B/r. (C12). 461013**
- survival time**
Bacterial pathogens in a reactor cooling reservoir. (B32). 479665
- The distinction between the roles of O_2 and of O_2^- in biological radiodamage. (C12). 463074**
- ultraviolet radiation**
DNA turnover in buffer-held *Escherichia coli* and its effect on repair of UV damage. (C11, C12). [Data] 484468
- Effect of photoreactivating light on lethal and pre-mutational UV lesions in *Escherichia coli* WP2, carrying the R46 mutator plasmid. (C12). [Data] 472935**
- Lethal interaction between ultraviolet-violet radiations and methyl methane sulphonate in repair proficient and repair deficient strains of *Escherichia coli*. (C11, C12). [Data] 484435**
- Ultraviolet mutagenesis in bacteria: the nature of error-prone repair. (C11, C12). 479786**
- ESCOM-1 REACTOR:**
See KOEBERG-1 REACTOR
- ESOPHAGUS:**
afterloading
A proposed afterloading technique for irradiation of the oesophagus. (C63; Iridium 192). 494583
- biological radiation effects**
Esophagitis induced by combined radiation and adriamycin. (C15, C63; Mediastinum irradiated to doses between 500 and 2500

- rad.). 472994
 Long term follow-up of combination chemotherapy-radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
 Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
biomedical radiography
 Radiological changes of reflux oesophagitis. (C61). 473382
delayed radiation effects
 Multiple carcinomas following therapy for Hodgkin disease. (C15, C63; Sensitizing effects of subsequent chemotherapy). 466171
 Opossum as an animal model for studying radiation esophagitis. (C14; Gamma rays). 490967
 Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276
 Radiation-induced cancer of the esophagus after postoperative irradiation for breast cancer. (C15). 469698
early radiation effects
 Opossum as an animal model for studying radiation esophagitis. (C14; Gamma rays). 490967
 Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276
internal irradiation
 A proposed afterloading technique for irradiation of the oesophagus. (C63; Iridium 192). 494583
radiation injuries
 Preliminary report of the M.D. Anderson Hospital/Texas A and M variable energy cyclotron fast-neutron therapy pilot study. (C15, C63; Comparison of effectiveness and complication rate for various irradiation techniques, tumor sites, and photon/neutron combinations). 473021
radiosensitivity
 The effects of single and fractionated doses of X-rays and neutrons on the oesophagus. (C14). 490957
radiotherapy
 Concentrated-nonuniform irradiation of locally expanding oesophageal cancer. (C15). 466160
scintiscanning
 Demonstration of gastroesophageal reflux in children by radionuclide gastroesophagography. (C62, C61; /sup 99m/Tc-sulfur colloid). 487734
 Improved radionuclide method for the diagnosis of gastroesophageal reflux and aspiration in children (milk scan). (C62, C61; /sup 99m/Tc-sulfur colloid-milk mixture). 487694
ESR:
 See ELECTRON SPIN RESONANCE
ESSENTIAL OILS:
biosynthesis
 Biosynthetic studies on linalool and linalyl acetate in Ocimum canum Sims and Mentha citrate Ehrh. (C31). 482118
ESTERASES:
 See also ACID PHOSPHATASE; ALKALINE PHOSPHATASE; ATP-ASE; DNA-ASE; LIPASES
ESTERS:
 (Includes esters of organic and inorganic acids.)
chemical reactions
 Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
photolysis
 Mechanism of reaction of SO₄ with some derivatives of benzoic acid. (B12, B14). 472472
radiolysis
 Mechanism of reaction of SO₄ with some derivatives of benzoic acid. (B12, B14). 472472
solvolysis
 Remote secondary deuterium kinetic isotope effects as a probe of steric strain in the solvolysis of tertiary alkyl carbonyl systems. (B12). [Data] 486566
ESTRADIOL:
radioassay
 A model for evaluating steroids acting at the hypothalamus-pituitary axis using radioimmunoassay and related procedures. (C45). [Data] 487380
ESTRANES:
 See also ESTRADIOL; ESTRIL; ESTRONE
ESTRIOL:
radioassay
 A model for evaluating steroids acting at the hypothalamus-pituitary axis using radioimmunoassay and related procedures. (C45). [Data] 487380
radioimmunoassay
 An economical approach to plasma oestriol assays using the Radiochemical Centre kit. (C62). 491309
 Improved radioimmunoassay of urinary estriol. (C62; ¹²⁵I tracer technique). 461409
 Radioimmunoassay of estriol-16-glucuronide using tritiated and radioiodinated radioligands: direct radioimmunoassay of urinary estriol-16-glucuronide during the menstrual cycle. (C45). 484644
radioimmunology
 Radioimmunological investigations in obstetrics and gynecology. (C62). 482349
ESTROGENS:
 See also ESTRADIOL; ESTRIL; ESTRONE
carcinogenesis
 Rat differences in mammary tumor induction with estrogen and neutron radiation. (C14; Diethylstilbestrol). 487228
radioimmunoassay
 Hormone levels in peripheral plasma of the Afrikaner cow: Pt. 2. (C45). [Data] 469869
radiopharmaceuticals
 Receptor-binding radiotracers: a class of potential radiopharmaceuticals. (C62, B13, C21). 473422
radiosensitivity
 Rat differences in mammary tumor induction with estrogen and neutron radiation. (C14; Diethylstilbestrol). 487228
response modifying factors
 Estrogens as radioprotectants and radiosensitizers. (C14). 463105
ESTRONE:
chemical reactions
 Cobalt way to di-Estrone, a highly regiospecific functionalization of 2,3-bis(trimethylsilyl)estratrien-17-one. (B12). 472429
radioassay
 A model for evaluating steroids acting at the hypothalamus-pituitary axis using radioimmunoassay and related procedures. (C45). [Data] 487380
ESTROUS CYCLE:
biological radiation effects
 Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
dehydrogenases
 Determination of estradiol, estrone and progesterone in serum and human endometrium in correlation with the content of steroid receptors and 17β-hydroxysteroid dehydrogenase activity during the menstrual cycle. (C45). [Data] 487378
estriol
 Radioimmunoassay of estriol-16-glucuronide using tritiated and radioiodinated radioligands: direct radioimmunoassay of urinary estriol-16-glucuronide during the menstrual cycle. (C45). 484644
radioimmunoassay
 Cyclic changes in the circulating and urinary levels of ovarian steroids in the adult female owl monkey (Aotus trivirgatus). (C45). 487334
ESTUARIES:
compiled data
 Data from an instrumented navigational light tower off the Savannah River estuary. (C52). 480074
contamination
 Plutonium in the Savannah River and marine environs. (B32). [Data] 479664
hydrodynamics
 SEDONE: a computer code for simulating tidal-transient, one-dimensional hydrodynamic conditions and three-layer, variable-size sediment concentrations in controlled rivers and estuaries. (B32, C52; Code has application in determining hydrodynamic, thermal, chemical, radiological, and biological impacts of thermal power plants). 469539
meteorology
 Data from an instrumented navigational light tower off the Savannah River estuary. (C52). 480074
quantitative chemical analysis
 A comparative study of mineralization methods applied to the determination of trace metals in suspensions by atomic absorption. (B11). [Data] 493483
radioactivity
 Chesapeake Bay baseline data acquisition, appendix IX. Wetlands alteration. Final report, 1973-78. (C22, C52, F30). 494347
radionuclide migration
 HOTSED: a discrete element model for simulating hydrodynamic conditions and adsorbed and dissolved radioisotope concentrations in estuaries. (B32). 465815
sedimentation
 SEDONE: a computer code for simulating tidal-transient, one-dimensional hydrodynamic conditions and three-layer, variable-size sediment concentrations in controlled rivers and estuaries. (B32, C52; Code has application in determining hydrodynamic, thermal, chemical, radiological, and biological impacts of thermal power plants). 469539
sierra leone
 Hydrographic and chemical observations in the Sierra Leone River estuary. (B32). 465817
thermal pollution
 Effect of thermal shock on developmental stages of estuarine fish. Final report. (B32). 465814
water chemistry
 Hydrographic and chemical observations in the Sierra Leone River estuary. (B32). 465817
water pollution
 Chesapeake Bay baseline data acquisition, appendix IX. Wetlands alteration. Final report, 1973-78. (C22, C52, F30). 494347
 The pollution history of the Savannah River Estuary. Final report 1 Sep 1976-31 Dec 1977. (B32, E52, C52). 469537
ESTUARINE ECOSYSTEMS:
 See AQUATIC ECOSYSTEMS
ETA MESONS:
configuration mixing
 A phenomenological model for pseudoscalar meson mixing. (A21). 478425
flavor model
 Axial-vector current anomaly, decay constants, and eta-eta'-eta sub(c) problem in an N-flavour quark model. (A21). [Data] 481399
hadronic particle decay
 Light-quark mass spectrum in quantum chromodynamics. (A21, A11). 486073

- leptonic decay**
 $\eta \rightarrow \mu^+ \mu^- \gamma$ decay detection. (A22). 468171
mass
 Determination of the chiral SU(4) x SU(4) breaking parameters. (A21). 468036
- particle decay**
 Decay of ν -meson in $\gamma \mu^+ \mu^-$ in the vector dominance model. (A21). 478415
 Masslessness of the up quark and $\eta \rightarrow 3\pi^0$ decay. (A21). 472031
 Methods of measurement of physical background noise and data processing in the $\gamma + p \rightarrow \nu^0 + p$ reaction. (A22). 493109
- particle production**
 Backward ω^0 and η^0 production in πp interactions at 9 and 12 GeV/c. (A22). 478527
 Determination of total cross sections of nucleon interaction with π^0 , η , ω and f mesons produced by 3.2 GeV/c π mesons on xenon nuclei. (A22, A21). 468163
 Neutral particle production from 300 GeV/c proton proton collisions in the Fermilab 15 foot bubble chamber. (A22; Cross sections, transverse distribution). [Data] 486144
 Reaction $\pi p \rightarrow \eta$ in the 15 to 40 GeV/c momentum range. (A22). 478517
- photoproduction**
 Angular dependence of the cross section asymmetry of the $\gamma + p \rightarrow \nu^0 + p$ reaction at energy $E_{\text{sub}}(\gamma) = 1.8$ GeV. (A22). 493094
 Inclusive photoproduction of eta mesons at 9.7 GeV. (A22). 486148
 Methods of measurement of physical background noise and data processing in the $\gamma + p \rightarrow \nu^0 + p$ reaction. (A22). 493109
- ETA-549:
 See ETA MESONS
- ETA-700 RESONANCES:
s waves
 Polarization measurements and a narrow epsilon (750). (A22). 489941
- ETA-958 RESONANCES:
branching ratio
 On understanding $\eta' \rightarrow \eta \pi \pi$ and allied processes despite Adler zeros. (A21). 486094
configuration mixing
 A phenomenological model for pseudoscalar meson mixing. (A21). 478425
decay
 Light-quark masses and isospin violation. (A21). 486048
electroproduction
 Preliminary results from the Mark II detector. (A22; Transverse momentum, cross sections, branching ratio). [Data] 489980
gamma decay
 Preliminary results from the Mark II detector. (A22; Transverse momentum, cross sections, branching ratio). [Data] 489980
gluons
 ν -meson as a pseudoscalar gluonium. (A21). 493086
hadronic particle decay
 $\eta' (958) \rightarrow 4\pi$ decay in a broken-SU₆ x O₃ quark model. (A21). [Data] 464840
 Resolution of the $\eta' \rightarrow \eta \pi \pi$ puzzle. (A21; Current algebra, symmetry breaking, quark mass terms). 481365
particle widths
 Resolution of the $\eta' \rightarrow \eta \pi \pi$ puzzle. (A21; Current algebra, symmetry breaking, quark mass terms). 481365
- ETCHING:
electrodeposition
 A simple set-up for single surface electrochemical etching (ECE) of charged particle tracks. (E41). 492054
polycarbonates
 Effect of etching solution normality on electrochemical etching of recoil particle tracks in polycarbonate. (E41, C55). [Data] 477347
sputtering
 Methods of etching a substrate. (A13). 492598
- ETHANAL:
 See ACETALDEHYDE
- ETHANE:
chemical reaction kinetics
 Temperature-dependent A factor in thermal unimolecular reactions. (B12). 460464
chemical reactions
 Conformational dependence of secondary β -deuterium isotope effects. (B12). [Data] 486589
 Reactions of methane and ethane with hole centers O \cdot^- . (B14). 465464
decomposition
 Temperature-dependent A factor in thermal unimolecular reactions. (B12). 460464
electron-molecule collisions
 Dissociation of ethane by electron impact. (A12). 459775
 Electron impact spectra of methane, ethane, and neopentane. (A12). [Data] 464007
 High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
 Ionization efficiency curves of ethylene, ethane and acetylene by electron impact. (B14). 468978
intermolecular forces
 Determination of intermolecular forces at moderately high temperatures. (A12). 471374
labelling
 Catalytic reactions of hydrocarbons over Pt-Pd alloys. II. Deuterium exchange of methane and ethane over Pt-Pd alloy films. Surface composition of Pt-Pd alloy system. (B12). [Data] 478950
- pyrolysis**
 Tritium as an indicator of CH₃ and C₂H₅ radicals in ethane pyrolysis. (B12). [Data] 493622
- radiolysis**
 Chemical aspects of recoil tritium atoms interaction with adsorbed substance and solid. (A13, B13, B14). 492699
- ETHANOL:
aqueous solutions
 Additivity of inelastic gamma ray scattering in methanol-water and ethanol-water solutions. (B12). 484038
chemical radiation effects
 Trapped and solvated electrons produced in ethanol glass in the presence of an applied electric field. (B14; Gamma radiation). [Data] 486745
chemical reactions
 Infrared laser induced organic reactions. 2. Laser vs. thermal inducement of unimolecular and hydrogen bromide catalyzed bimolecular dehydration of alcohols. (B12). [Data] 472421
 Intramolecular kinetic isotope effect in gas-phase proton-transfer reactions. (B12). 490420
 Studies of gas phase reactions of uranium with selected oxidizers and fluoromethanes. (B13, A12). [Data] 472485
compton effect
 Additivity of inelastic gamma ray scattering in methanol-water and ethanol-water solutions. (B12). 484038
nucleate boiling
 Nucleate boiling in thin liquid films. (E11). 480345
radiolysis
 Effect of irradiation at 77K prior to irradiation at 4K in ethanol glass. (B14). 493807
- ETHERS:
 See also ACETALS; IOGLYCAMIC ACID; METHYL ETHER; MEXAMINE
isotope dilution
 Respective function of carrier and internal standard in mass fragmentometric quantitative analysis. (B11). 478854
radiolysis
 Identification of stable products of γ -radiolysis of 1,1-dichloro-1,2,2-trifluoroethyltrichloromethyl ether (C₂-Cl₂O). (B14). 479135
- ETHINE:
 See ACETYLENE
- ETHYL ALCOHOL:
 See ETHANOL
- ETHYL METHANESULFONATE:
 See EMS
- ETHYL RADICALS:
ion-molecule collisions
 Determination of ion-molecule collision frequencies by Fourier transform ion cyclotron resonance spectroscopy. (A12). 477805
- ETHYLADEHYDE:
 See ACETALDEHYDE
- ETHYLENE:
adsorption
 Decomposition of ethylene on W(100) studied by Auger spectroscopy. (B22). 484179
bromination
 Investigation of mechanism of radiation chain hydrobromization of ethylene at 30-90 K. (B14). 479197
charged-particle transport
 Re-examination of the intensity distribution in the electron energy-loss spectrum of ethylene. (A32). [Data] 464932
chemical analysis
 Environmental monitoring near industrial sites: brominated chemicals. Part II: appendix. Final report 19 Jul-16 Dec 77. (B11, C52). 475899
chemical radiation effects
 Thermal analysis of polyethylene prepared by γ -ray-induced polymerization in various solvents. (B14). 460582
chemical reaction yield
 Infrared laser induced organic reactions. 2. Laser vs. thermal inducement of unimolecular and hydrogen bromide catalyzed bimolecular dehydration of alcohols. (B12). 472421
 Kinetic isotope effect in the thermolysis of methylenecyclobutane. (B12). [Data] 486581
 Thermolysis of cis- and trans-1,2-dideuteriocyclobutane. (B12). [Data] 472419
chemical reactions
 Coordination chemistry study of a nickel surface. The chemistry of Ni(111) with triply bonded molecules. (B12). 472432
 Nuclear methods in chemical kinetics. Technical progress report, April 1, 1978 - March 31, 1979. (B12). 460449
chemisorption
 LEED analysis of acetylene and ethylene chemisorption on the Pt(111) surface: Evidence for ethynylidyne formation. (B12). [Data] 465337
decomposition
 Decomposition of ethylene on W(100) studied by Auger spectroscopy. (B22). 484179
electron collisions
 Electron impact spectra of some mono-olefinic hydrocarbons. (A12). 474595
electron-molecule collisions
 Ionization efficiency curves of ethylene, ethane and acetylene by electron impact. (B14). 468978
ion-molecule collisions
 Photoionization of ethylene clusters. (A12). [Data] 463959
molecular structure
 Green's functions in quantum chemistry II - Improving the Σ perturbation approach. (A11). 459700

- photoacoustic spectrometers**
Optoacoustic detection of ethylene in urban polluted areas. (E42). 463759
- photoelectron spectroscopy**
Photoelectron spectroscopy using a supersonic molecular beam source. The $^2\text{B}/\text{sub } 3\text{u} + \text{e}^{-}$ reverse arrow $^1\text{A}/\text{sub } \text{g}^{-}$ transition in ethylene. (A12). 477727
Study by photoelectron spectroscopy of isotopic effects in various polyatomic molecules. Comparison between experimental and calculated vibrational transitions probabilities. (A12; $\text{C}_2\text{H}_4 - \text{C}_2\text{D}_4$). 462105
- photoionization**
Photoionization of ethylene clusters. (A12). [Data] 463959
- radiation effects**
Effect of gamma radiation on some properties of ethylene copolymers with vinyl acetate. (B14, B25). 479287
- radiolysis**
Effect of pH on oxygen (^1P) atom formation in γ -ray irradiated aqueous solutions. (B14). 468941
- vibrational states**
Photoelectron spectroscopy using a supersonic molecular beam source. The $^2\text{B}/\text{sub } 3\text{u} + \text{e}^{-}$ reverse arrow $^1\text{A}/\text{sub } \text{g}^{-}$ transition in ethylene. (A12). 477727
- ETHYLENE GLYCOL:**
See GLYCOLS
- ETHYLENE POLYMERS:**
See POLYETHYLENES
- ETHYLENECARBOXYLIC ACID:**
See ACRYLIC ACID
- ETHYLENEDIAMINETETRAACETIC ACID:**
See EDTA
- ETHYNE:**
See ACETYLENE
- ETR REACTOR:**
in pile loops
SLSF delayed neutron detection with the on-line sodium sampling system. (E36). 492027
- EUCLIDEAN SPACE:**
electromagnetic radiation
On the possibility of a three-temporal Lorentz transformation. (A11). 471307
lorentz transformations
On the possibility of a three-temporal Lorentz transformation. (A11). 471307
spherical configuration
Explicit classical solutions to Euclidean Yang-Mills theory with spherical symmetry. (A11). 462086
wave functions
On the global nature of the semiclassical wavefunction describing elastic scattering in several coordinate dimensions. (A11). 483013
yang-mills theory
Explicit classical solutions to Euclidean Yang-Mills theory with spherical symmetry. (A11). 462086
- EUGLENA:**
radiosensitivity
Differential response of Euglena gracilis to gamma-ray radiation in light and dark. (C11). 481985
- EURATOM:**
investment
New investment powers of Euratom. (F11; Financing nuclear power projects). 477493
radiation monitoring
Results of environmental radioactivity measurements in the member states of the European Community for air, deposition, water, milk, 1975-1976. (B33, B32, C43). [Data] 460906
- EUROCHEMIC:**
decontamination
The shutdown of the Eurochemic plants: program, evolution and teachings. (B16, E52, C54, E51). 481763
- EURODIF:**
(International association founded in march 1972 to promote the construction of a European gaseous diffusion plant.)
Present status of EURODIF project. (D11). 487774
pressure vessels
Fabrication of the diffuser rings for USS1 EURODIF-Tricastin plant. (D11). 463482
- EUROP SAFEG RES DEVELOP ASSOC:**
See ESARDA
- EUROPE:**
See also AUSTRIA; BELGIUM; CZECHOSLOVAKIA; DENMARK; FEDERAL REPUBLIC OF GERMANY; FINLAND; FRANCE; GERMAN DEMOCRATIC REPUBLIC; GREECE; HUNGARY; ITALY; NETHERLANDS; NORWAY; SPAIN; SWEDEN; SWITZERLAND; UNITED KINGDOM; USSR; YUGOSLAVIA
uranium ores
Foreign exploration. (B31). 476471
- EUROPEAN ATOMIC ENERGY COMM:**
See EURATOM
- EUROPEAN COMMUNITIES:**
See also EURATOM
- EUROPEAN ORGANIZATION FOR NUCL:**
See CERN
- EUROPIUM:**
absorption spectra
Beutler's spectra of rare earth elements. Ytterbium and europium. (A12). 464028
activation analysis
Harrisburg $1^{\circ} \times 2^{\circ}$ NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- adsorption**
Ion-exchange equilibria between montmorillonite and solutions of moderate-to-high ionic strength. (E52; Sodium and calcium forms of montmorillonite). [Data] 480897
Radionuclide sorption studies on abyssal red clays. (E52). [Data] 480874
Sorption of small amounts of europium(III) on iron(III) hydroxide and oxide. (B12). [Data] 484045
- electron-atom collisions**
Observation of two-electron one-photon transition in Eu 3 in electron-atom collisions. (A12). 485450
- element abundance**
Rare earths in barites: distribution and effects on aqueous partitioning. (B31). [Data] 487086
- energy transfer**
Energy transfer from triplet aromatic hydrocarbons to Tb^{3+} and Eu^{3+} in aqueous micellar solutions. (B12). [Data] 490327
- energy-level transitions**
A high resolution study of the transitions $4f^6s^2 \rightarrow 4f^6s6p$ in the Eu 1-spectrum. (A12). [Data] 471418
Phonon sidebands (Stokes and anti-Stokes) in the optical spectra of rare earth atoms in rare gas matrices. (A12). 459750
- excitation functions**
Electron impact excitation of 6s, 5p and 4f-subshell electrons of the rare earth atoms. (A12). 464085
- fluorescence**
An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- fluorescence spectroscopy**
Spectrofluorimetric determination of europium and samarium with mixtures of 2-thenyltrifluoroacetone and tri-n-octylphosphine oxide in aqueous solutions containing triton X-100. (B11). 484008
- k shell**
An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- photoionization**
Studies of electron correlation in the photoionization process. (A12). 485514
- photon activation analysis**
The use of photon activation analysis for the determination of Sm, Eu, Gd and Dy in boron carbide. (B11). [Data] 483955
- quantitative chemical analysis**
Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676
- radionuclide migration**
Sorption and migration of radionuclides in geologic media. (E52, B31; Quartz monzonite, argillite, alluvium, and tufts). 471072
- solvent extraction**
Distribution ratios and empirical equations for the extraction of elements in purex high level waste solution. (B12, B13). [Data] 460532
Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704
- thermal conductivity**
Thermal conductivity of rare earth metals of the cerium subgroup at low temperatures. (B22). 486881
- trace amounts**
Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). 483958
- EUROPIUM ADDITIONS:**
luminescence
Thermochromatic rare-earth luminophores. (B12). 493666
- EUROPIUM ALLOYS:**
intermetallic compounds
Superconductivity with europium. (A17, B22). 489700
magnetic properties
Effects of substitution of chromium and nickel on the magnetic properties of $\text{Er}_2\text{Co}_{17}$ and $\text{Sm}_2\text{Co}_{17}$. (B22). 479447
magnetic susceptibility
Magnetic properties of $\text{Ce}_{\text{sub}}(x)\text{Eu}_{\text{sub}}(1-x)\text{B}_{\text{sub}}(6)$ solid solutions. (B22, B23). 476238
magnetization
Magnetic ordering in Yb-Eu alloys. (A13). [Data] 492663
phase diagrams
Europium-gallium phase diagram. (B22). 469342
Study of interaction in $\text{EuTe-Sb}_2\text{Te}_3(\text{Bi}_2\text{Te}_3)$ and $\text{YbTe-Sb}_2\text{Te}_3(\text{Bi}_2\text{Te}_3)$ systems. (B12). 478885
superconductivity
Superconductivity with europium. (A17, B22). 489700
- EUROPIUM BORIDES:**
comparative evaluations
Hot pressing of EuB_6 . (B23, E36). [Data] 490662
electric conductivity
Magnetic, transport, and thermal properties of ferromagnetic EuB_6 . (B23). 494065
electrical properties
Study of carbon-substituted EuB_6 . (B23). 494069
hot pressing
Hot pressing of EuB_6 . (B23, E36). [Data] 490662
lattice parameters
Study of carbon-substituted EuB_6 . (B23). 494069
magnetic properties
Magnetic, transport, and thermal properties of ferromagnetic EuB_6 . (B23). 494065
magnetic susceptibility
Magnetic properties of $\text{Nd}_{\text{sub}}(x)\text{Eu}_{\text{sub}}(1-x)\text{B}_{\text{sub}}(6)$ solid solutions. (B23). 494059
- EUROPIUM BROMIDES:**
lattice vibrations
Mean amplitudes of vibration of the hexachloro- and hexabromo-

- anions of some lanthanides. (B12). 478899
- EUROPIUM CHLORIDES:**
- chemical preparation**
- Preparations of the classical rare earth(II) chlorides in solution. (B12). 479029
- dehydration**
- Hydrates and crystal structures of strontium chloride and europium dichloride. (B12). 465314
- lattice vibrations**
- Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). [Data] 478899
- quantitative chemical analysis**
- Determination of light lanthanides by the method of atomic absorption spectrometry. (B11). 493510
- EUROPIUM COMPLEXES:**
- chemical preparation**
- Formation of dinuclear complexes in the systems of Nd-La-EDTA, Eu-Hf-EDTA, Eu-Nd-DTPA. (B12). 490415
- Formation of dinuclear complexes in the systems of Nd-La-EDTA, Eu-Hf-EDTA, Eu-Nd-DTPA. (B12). 490415
- Uranyl and lanthanide complexes of the 1,2-dipyridylethylene isomers. (B12, B13). [Data] 481690
- chemical reaction kinetics**
- Kinetics and mechanism of ligand substitution of ethylenediaminetetraacetate in in EuMTB and HoMTB complexes. (B12). 486561
- chemical reactions**
- Estimation of local bonding constants of lanthanide shift reagents with bifunctional ligands. (B12). 465432
- energy transfer**
- Intermolecular energy transfer between lanthanide complexes in aqueous solution. (B12). 481657
- europium ions**
- Non-radiative energy transfer from tunable donor states to Eu^{3+} ions. (A12). 459777
- infrared spectra**
- IR-spectra of thiocarbamide complexes of cadmium and rare earth perchlorates. (B12). [Data] 493556
- polarography**
- Polarographic reduction of Eu^{3+} -N-methyliminodiacetic acid and N-ethyliminodiacetic acid complexes in aqueous media. (B12). 479055
- precipitation**
- The precipitation of the lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468837
- The precipitation of lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468838
- solvent extraction**
- Anomalous aryl strengthening of complexes at americium and europium extraction with alkylendiphosphine dioxide from perchloric media. (B13). 479110
- Extraction and absorption spectra of americium thiocyanate complexes in xylene. (B13). [Data] 460554
- Extraction of europium from a molten salt phase. (B12). [Data] 493650
- Extraction of lanthanoids from hydrochloric and nitric acid solutions by Di(2-ethylhexyl)phosphoric acid. (B12). [Data] 475963
- stability**
- Square complexes of some lanthanide ions in aqueous solution. (B12). [Data] 472438
- Studies on lanthanides. Stability constants and thermodynamic functions for the formation of some lanthanides(III) CPTA complexes. (B12). 460512
- Thermodynamic functions and stability constants of rare earths with monothiodibenzoylmethane. (B12). [Data] 481695
- Use of system of ligand parameters (sub(L)) for prediction of stability of europium(2), radium, actinium and promethium complexes. (B12, B13). [Data] 478983
- valine**
- Complexation reaction of metal ions with peptide systems. II. (B12). 484055
- vapor pressure**
- Vapor pressure measurements of europium(III) and americium(III) chelates of 2,2,6,6-tetramethyl-3,5-heptanedione by Knudsen method. (B12). [Data] 493552
- EUROPIUM COMPOUNDS:**
- See also EUROPIUM BORIDES; EUROPIUM BROMIDES; EUROPIUM CHLORIDES; EUROPIUM NITRATES; EUROPIUM NITRIDES; EUROPIUM OXIDES; EUROPIUM PHOSPHATES; EUROPIUM SELENIDES; EUROPIUM SILICATES; EUROPIUM SULFATES; EUROPIUM SULFIDES; EUROPIUM TELLURIDES
- chemical preparation**
- Synthesis and properties of electrochemically oxidized dipthalocyanines of rare earths and americium. (B12, B13). 493667
- coprecipitation**
- Mechanism of coprecipitation of plutonium (4) and europium (3) with calcium oxalate. (B13, B12). 490457
- Regularities of heterovalent impurity distribution between cadmium hydroxide deposit and solution. (B13). 476128
- crystal growth**
- Synthesis of solid solution monocrystals in the $\text{ReSub}(3-x)\text{Casub}(x)\text{Gasub}(5-x)\text{Zrsub}(x)\text{Osub}(12)$ system ($0 < x \leq 0.5$ and Re-Gd, Sm, Eu). (B12). 468846
- crystal structure**
- Incommensurability in crystal structures. (A13). 459789
- diffusion**
- Chronopotentiometric determination of diffusion coefficients of some ions against a background of the $2\text{AlCl}_3\text{-NaCl}$ melt. (B12). 486567
- electric conductivity**
- Magnetic and transport properties of some light rare earth tungstates. (B12). 462699
- hyperfine structure**
- Moessbauer investigation of magnetic hyperfine fields near bivalent Eu compounds under high pressure. (A13). 467349
- isomer shift**
- Isomer shift of Eu^{2+} in fluorites. (A13). [Data] 474883
- magnetic susceptibility**
- Magnetic and transport properties of some light rare earth tungstates. (B12). 462699
- phosphors**
- Study of possibility of using some aprotic solvents for preparation of liquid luminophores on the base of rare earth ions. (B12). 484041
- photolysis**
- Excited-state photochemistry in the tris(2,2'-bipyridine)ruthenium(II)-sulfite system. (B12). [Data] 472420
- polarography**
- On some regularities of oscillographical behaviour of europium(3) and ytterbium(3) in solutions of alkali and alkaline earth metal halides. (B11). 478835
- Oscillographical behavior of europium (3) and ytterbium (3) in alkali and alkaline earth metal halogenide solutions. (B11). 493514
- quantitative chemical analysis**
- Chronopotentiometry. (B11). 493544
- radiolysis**
- Radiation reduction of bismuth, europium and ytterbium ions. (B14). 479221
- reduction**
- Effect of pH value on reduction kinetics of europium(3) on mercury dropping electrode. (B12). 479074
- Inhibition effect of methyl-butyl ketone on europium and titanium recharge reactions on mercury electrode. (B12). 479048
- solubility**
- Application of potentiostatical method for determination of solubility and diffusion coefficient of some rare earth metals in mercury. (B12). 479035
- solvent extraction**
- Calculation of distribution ratios of rare earth elements in multistage counter current extraction with HDEHP. (B12). [Data] 476039
- Separation of trivalent actinides from lanthanides by solvent extraction. (B13, B12). [Data] 481704
- thermal expansion**
- Anomalous thermal expansion of intermediate valence compounds. (A13). 481136
- EUROPIUM IONS:**
- crystal field**
- Calculating crystal field constants in Eu^{3+} spin-Hamiltonian in alkali halide crystals. (A13). 467462
- Correlation crystal fields for rare earths and actinides. (A12). 459741
- crystal structure**
- Relation of luminescence spectrum of Eu^{2+} with crystal structure. (A12). 492508
- doped materials**
- Crystal field constants calculation in the spin-Hamiltonian for Eu^{2+} in alkali-halide crystals. (A13). 477941
- energy transfer**
- Energy transfer between Bi^{3+} and Eu^{3+} in germanate glasses using time resolved spectroscopy. (A12). 459716
- energy-level transitions**
- Anomalous spectral properties of inhomogeneously broadened transitions of Eu^{3+} in $\text{Ca}(\text{PO}_3)_2$ glass. (A12). 459771
- fluorescence**
- Laser-induced fluorescence line narrowing of Eu^{3+} in lithium borate glass. (A12). 459736
- fluorescence spectroscopy**
- Laser-induced fluorescence line narrowing of Eu^{3+} in lithium borate glass. (A12, B24). 467213
- fluorite**
- Peculiarities of luminescence and europium restoration in synthetic analogues of fluorite and their geological application. (A12). 492543
- luminescence**
- Energy transfer from Gd^{3+} to Tb^{3+} and Eu^{3+} . (A12). 483142
- Relation of luminescence spectrum of Eu^{2+} with crystal structure. (A12). 492508
- photoluminescence**
- Peculiarities of luminescence and europium restoration in synthetic analogues of fluorite and their geological application. (A12). 492543
- radiationless decay**
- Non-radiative energy transfer from tunable donor states to Eu^{3+} ions. (A12). 459777
- strontium fluorides**
- Temperature dependence of the second-order spin-lattice coefficients for Eu^{2+} in SrF_2 single crystals. (A13). 477904
- EUROPIUM ISOTOPES:**
- See also EUROPIUM 142; EUROPIUM 145; EUROPIUM 147; EUROPIUM 149; EUROPIUM 151; EUROPIUM 152; EUROPIUM 153; EUROPIUM 154; EUROPIUM 155; EUROPIUM 156; EUROPIUM 157; EUROPIUM 159
- energy levels**
- (p,n) reaction to ground- and excited-state analogs on the samarium isotopes: Importance of two-phonon coupling effects. (A34). 490260

- hyperfine structure**
High resolution atomic-beam-laser spectroscopy of europium I and dysprosium I. (A12). 483235
- EUROPIUM NITRATES:**
distribution functions
Effect of gamma-radiation on the extraction of europium and americium by benzyldibutylamine. (B14, B12). [Data] 484102
solubility
Investigation into solubility in europium nitrate-benzamide-water system at 25 deg C. (B12). [Data] 493722
- EUROPIUM NITRIDES:**
electric conductivity
Pressure dependence of the resistivity of the rare earth oxide nitrides $\text{Eu}^{2+}\text{sub}(1-x)\text{Ln}^{3+}\text{sub}(x)\text{Nsub}(x)\text{Osub}(1-x)$ (Ln = Nd, Eu). (B12). 481658
- EUROPIUM OXIDES:**
chemical preparation
Synthesis and properties of alloyed compositions based on silicon dioxide and rare earth oxides. (B12). 478896
comparative evaluations
Hot pressing of EuB_6 . (B23, E36). 490662
electric conductivity
Effect of magnetic ordering on the SHF conduction of EuO . (A13). 467466
Pressure dependence of the resistivity of the rare earth oxide nitrides $\text{Eu}^{2+}\text{sub}(1-x)\text{Ln}^{3+}\text{sub}(x)\text{Nsub}(x)\text{Osub}(1-x)$ (Ln = Nd, Eu). (B12). 481658
equilibrium
Phase equilibria in europium(III) oxide-titanium(IV) oxide system at temperatures from 900 to 1400°C. (B12). [Data] 475969
interatomic distances
Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
magnetic properties
Zero wave vector kinetic coefficient in the isotropic ferromagnet EuO near $T/\text{sub } c/$. (B23). 479489
phase diagrams
Phase equilibria in europium(III) oxide-titanium(IV) oxide system at temperatures from 900 to 1400°C. (B12). [Data] 475969
photoemission
Gd-doped EuO : Temperature dependence of the 4f-photoelectron spin polarization. (B23). 486964
physical properties
Europia as a nuclear control material. (E24, E35, B23; LMFBR). 470601
physical radiation effects
BICM-2 instrumented neutron absorber experiment. (E24, B25). 480611
piezoelectricity
Piezoresistance effect in magnetic semiconductor. EuO . (A13). [Data] 477867
raman spectra
Spin-dependent raman scattering of europium chalcogenides. (A13). [Data] 477917
solid solutions
Roentgenographic and luminescent investigations of the orthotantalate section of the $\text{Eu}_2\text{O}_3\text{-Sc}_2\text{O}_3\text{-Ta}_2\text{O}_5$ system. (B12). 493680
specific heat
Specific heat of a quasi-degenerated magnetic semiconductor. (A13). 467375
spin orientation
Optical orientation of 4f-electrons in ferromagnetic europium oxide. (B22, A13). 484277
- EUROPIUM PHOSPHATES:**
structural chemical analysis
Investigation of europium polyphosphates. (B12). 475949
- EUROPIUM SELENIDES:**
curie point
High-pressure Moessbauer study of the Curie temperatures and transferred hyperfine fields at ^{151}Eu and substitutional ^{119}Sn in EuS and EuSe . (A13). 483269
moessbauer effect
High-pressure Moessbauer study of the Curie temperatures and transferred hyperfine fields at ^{151}Eu and substitutional ^{119}Sn in EuS and EuSe . (A13). 483269
- EUROPIUM SILICATES:**
magneto-optical effects
Optical, magnetic, and magnetooptical properties of the europium silicate glass $\text{EuSub}(0.14)\text{SiSub}(0.31)\text{Osub}(0.55)$. (A13). 464211
optical properties
Optical, magnetic, and magnetooptical properties of the europium silicate glass $\text{EuSub}(0.14)\text{SiSub}(0.31)\text{Osub}(0.55)$. (A13). 464211
- EUROPIUM SULFATES:**
reduction
Estimation of accidental errors influence on the parameters value characterizing electrochemical reaction rate in the presence of surfactants. (B12). 486588
solubility
Systems of europium sulfate-carbamide-water and europium sulfate-acetamide-water at 30 deg C. (B12). 476037
- EUROPIUM SULFIDES:**
chemical preparation
Synthesis and X-ray investigation of europium ortho-thiogermanate. (B12). 493703
curie point
High-pressure Moessbauer study of the Curie temperatures and transferred hyperfine fields at ^{151}Eu and substitutional ^{119}Sn in EuS and EuSe . (A13). 483269
- magnetic moments**
Magnetic interactions in ternary superconductors. (A17, B24). 475497
- magnetic properties**
Magnetic interactions in ternary superconductors. (A17, B24). 475497
- moessbauer effect**
High-pressure Moessbauer study of the Curie temperatures and transferred hyperfine fields at ^{151}Eu and substitutional ^{119}Sn in EuS and EuSe . (A13). 483269
- spin glass state**
Observation of spin-cluster freezing in dilute $(\text{EuSub}(x)\text{SrsSub}(1-x))\text{S}$ by low-frequency magnetic absorption. (A13). 481118
- EUROPIUM TELLURIDES:**
raman spectra
Spin-dependent raman scattering of europium chalcogenides. (A13). [Data] 477917
- EUROPIUM 142:**
nuclear structure
The transition from spherical to deformed in odd-A nuclei. (A33). 490098
- EUROPIUM 145:**
beta-plus decay
Study on the $^{145}\text{Eu} \rightarrow ^{145}\text{Sn}$ decay. (A34; $\text{Esub}(\gamma) = 100\text{-}2500$ keV). [Data] 486481
energy levels
In-beam studies of ^{145}Gd and ^{145}Eu . (A32). 464931
excited states
Magnetic moments of the $11/2^-$ states in $^{145,147,149}\text{Eu}$ and paramagnetism in the system EuSm . (A34). [Data] 472269
high spin states
Core coupled stated in ^{145}Eu . (A34). 465090
isomeric nuclei
The magnetic moment of the isomeric $11/2^-$ state in ^{145}Eu . (A34). 465163
- EUROPIUM 147:**
beta-plus decay
 ^{147}Eu nuclei alignment in the gadolinium. (A34). 493401
energy-level transitions
Gamma spectra measured in the geometry when a radiation source is placed closely to a detector. ^{147}Gd decay. (A34). 483879
excited states
Magnetic moments of the $11/2^-$ states in $^{145,147,149}\text{Eu}$ and paramagnetism in the system EuSm . (A34). [Data] 472269
- EUROPIUM 149:**
energy levels
Proton states in the $N = 86$ nuclei ^{147}Pm and ^{149}Eu populated in the $(^3\text{He}, d)$, (α, t) and (t, α) reactions. (A34). [Data] 468561
energy-level transitions
Investigation of $^{149}\text{Gd} \rightarrow ^{149}\text{Eu}$ radioactive decay. (A34). [Data] 493468
excited states
Investigation of $^{149}\text{Gd} \rightarrow ^{149}\text{Eu}$ radioactive decay. (A34). [Data] 493468
Magnetic moments of the $11/2^-$ states in $^{145,147,149}\text{Eu}$ and paramagnetism in the system EuSm . (A34). [Data] 472269
- EUROPIUM 151:**
energy levels
Study of ^{151}Eu levels via the $(p, 2n\gamma)$ reaction. (A34). [Data] 472232
gamma spectra
Study of ^{151}Eu levels via the $(p, 2n\gamma)$ reaction. (A34). [Data] 472232
hyperfine structure
High-pressure Moessbauer study of the Curie temperatures and transferred hyperfine fields at ^{151}Eu and substitutional ^{119}Sn in EuS and EuSe . (A13). 483269
moessbauer effect
Moessbauer studies of ternary superconductors. (B22, A17). 469207
nuclear structure
The transition from spherical to deformed in odd-A nuclei. (A33). 490098
superconductivity
Moessbauer studies of ternary superconductors. (B22, A17). 469207
- EUROPIUM 152:**
adsorption
Interaction of radionuclides with argillite from the Eleana Formation on the Nevada Test Site. (E52, B31). [Data] 492257
electron spectra
Internal conversion electron measurements following the decay of ^{152}Eu . (A34). 468462
tracer techniques
Tracing salmon to their birthplace by activable tracer technique. (C45). 476660
- EUROPIUM 153:**
internal conversion
Calculations of internal conversion coefficients accounting for nuclear deformation effect on the ground electron state. (A33). 493175
nuclear structure
The transition from spherical to deformed in odd-A nuclei. (A33). 490098
rotational states
 $E2$ -transitions of $\Delta K = 1$ in odd deformed nuclei. (A33). 465038
- EUROPIUM 153 TARGET:**
neutron reactions
Measurement of the neutron total cross sections of $\text{sup}(153, 154 \text{ and } 155) \text{Eu}$. (A34). [Data] 493347

EUROPIUM 154:

| | |
|---|--------|
| energy levels | |
| Nuclear data sheets for A=154. (A33). | 478631 |
| energy-level transitions | |
| Nuclear data sheets for A=154. (A33). | 478631 |
| gamma spectra | |
| Gama ray intensity standards for calibrating Ge(Li) detectors for the energy range 200-1700 KeV. (A32, E41). [Data] | 475699 |

EUROPIUM 154 TARGET:

| | |
|--|--------|
| neutron reactions | |
| Measurement of the neutron total cross sections of sup(153, 154 and 155) Eu. (A34). [Data] | 493347 |

EUROPIUM 155:

| | |
|--|--------|
| excited states | |
| Single-proton states in ¹⁵⁵ Eu. (A34). [Data] | 490134 |
| neutron reactions | |
| Measurement of the neutron total cross sections of sup(153, 154 and 155) Eu. (A34). [Data] | 493347 |
| nuclear structure | |
| The transition from spherical to deformed in odd-A nuclei. (A33). | 490098 |

| | |
|--|--|
| radiation monitoring | |
| Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). | |

| | |
|---|--------|
| [Data] | 476480 |
| Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September-October 1976. (B31, C22, C21). | |

| | |
|---|--------|
| [Data] | 469512 |
| radioecological concentration | |
| Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September-October 1976. (B31, C22, C21). | |

| | |
|---|--------|
| [Data] | 469512 |
| rotational states | |
| E2-transitions of $\Delta K=1$ in odd deformed nuclei. (A33). | 465038 |

EUROPIUM 156:

| | |
|---|--------|
| electron capture decay | |
| Decay of ¹⁵⁶ Er. (A34). [Data] | 490186 |

EUROPIUM 157:

| | |
|---|--------|
| rotational states | |
| Single-proton states in ¹⁵⁷ Eu and ¹⁵⁹ Eu studied with the (t(pol), α) reaction. (A34). | 472239 |

EUROPIUM 159:

| | |
|---|--------|
| rotational states | |
| Single-proton states in ¹⁵⁷ Eu and ¹⁵⁹ Eu studied with the (t(pol), α) reaction. (A34). | 472239 |

EUTECTICS:

| | |
|--|--------|
| nickel | |
| Corrosion of nickel in LiCl-KCl eutectic melt containing nitrate ion. (B15). | 465504 |

EVAPORATION:

| | |
|-------------------------------------|--------|
| See also SUBLIMATION | |
| Mass nucleation - Degassing. (E11). | 491474 |

| | |
|---|--------|
| losses | |
| Evaporation losses of metals in an inert gas atmosphere. (B22). | 465594 |

| | |
|---|--------|
| metals | |
| Evaporation losses of metals in an inert gas atmosphere. (B22). | 465594 |

EVAPORATION MODEL:

| | |
|---|--------|
| Abrasion-ablation calculations of large fragment yields from relativistic heavy ion reactions. (A33). | 475763 |
|---|--------|

| | |
|---|--------|
| energy-level density | |
| Shell model level densities in evaporation calculations. (A33). | 475708 |

| | |
|---|--|
| EVAPORATIVE COOLING: | |
| (Cooling of a liquid by using the vaporization heat of part of the liquid or cooling air by evaporating water into it.) | |

| | |
|---|--------|
| radiant heat transfer | |
| On the two-fold analogy between thermal and mass exchange at water evaporation into air. (E22). | 487998 |

EVAPORATORS:

| | |
|--|--------|
| tubes | |
| Corrosion resistance of ferritic steels in alkaline solutions. (B15, E35). | 460634 |

| | |
|---|--------|
| Waterside corrosion of stabilised 2 1/4%Cr-1%Mo ferritic steel under high heat flux conditions. (B15, E35). | 460632 |
|---|--------|

EVEN-EVEN NUCLEI:

| | |
|--|--------|
| (Even protons even neutrons; for specific terms, consult the APPENDIX.) | |
| electron reactions | |
| Taking account of final-state interaction in quasifree scattering of electrons by nuclei. (A33). | 493169 |

| | |
|--|--------|
| e2-transitions | |
| Internal conversion coefficients of the 2 ⁺ -0 ⁺ , E2 nuclear transitions in even-even nuclei. (A34). [Data] | 478752 |

| | |
|---|--------|
| ground states | |
| Ground state energies and RMS radii of even-even nuclei with energy density formalism. (A34). | 468494 |

| | |
|--|--------|
| hartree-fock method | |
| Structure of the self-consistent solutions for even-even nuclei in the 2p-1f shell. (A33). | 468327 |

| | |
|---|--------|
| high spin states | |
| Band structure in even-mass nuclei around A = 70. (A34, A33; Review). | 472295 |

| | |
|--|--------|
| internal conversion | |
| Internal conversion coefficients of the 2 ⁺ -0 ⁺ , E2 nuclear transitions in even-even nuclei. (A34). [Data] | 478752 |

| | |
|---|--------|
| nuclear radii | |
| Ground state energies and RMS radii of even-even nuclei with energy density formalism. (A34). | 468494 |

| | |
|--|--------|
| nuclear structure | |
| Hamiltonian in a body-fixed frame. (A33, A11). | 465059 |

| | |
|---|--------|
| quadrupole moments | |
| Electronuclear energy weighted sum rules and the quadrupole moments of excited states of nuclei. (A33). | 460300 |

| | |
|---|--------|
| rare earth nuclei | |
| An interpretation of backbending in terms of the crossing of the ground state band with an aligned two-quasiparticle band. (A33). | 460278 |

| | |
|--|--------|
| rotation | |
| Hamiltonian in a body-fixed frame. (A33, A11). | 465059 |

| | |
|--|--------|
| rotational states | |
| Microscopic description of coupled bands, including a superband, in even-even nuclei. (A33). | 486268 |

| | |
|--|--------|
| Model of coupled bands in even-even nuclei. (A33). | 486269 |
| Physical meaning of parameters of three-parametric rotational formulae. (A33). | 490041 |

| | |
|--|--------|
| vibrational states | |
| Microscopic description of coupled bands, including a superband, in even-even nuclei. (A33). | 486268 |

| | |
|--|--|
| EVEN-ODD NUCLEI: | |
| (Even protons odd neutrons; for specific terms, consult the APPENDIX.) | |

| | |
|---|--------|
| beta decay | |
| Beta decay log ft values for transitional odd-mass nuclei. (A33). | 483728 |

| | |
|--|--------|
| energy-level transitions | |
| Odd-parity levels in odd-A Xe nuclei. (A34). | 472253 |

| | |
|---|--------|
| neutron reactions | |
| Neutron inelastic scattering from some off-mass nuclei in the energy range 2.0 to 4.5 MeV. (A34). | 460355 |

| | |
|---|--------|
| nuclear structure | |
| New method for calculating collective spectra of odd-A nuclei. (A33). | 490072 |

| | |
|---------------------------|--|
| EVENT TREE ANALYSIS: | |
| See FAILURE MODE ANALYSIS | |

| | |
|-------------------------------|--|
| EVENTS (CHEMICAL EXPLOSIONS): | |
| See CHEMICAL EXPLOSIONS | |

| | |
|------------------------------|--|
| EVENTS (NUCLEAR EXPLOSIONS): | |
| See NUCLEAR EXPLOSIONS | |

| | |
|---|--------|
| EWA REACTOR: | |
| retrofitting | |
| Renewal and upgrading programmes of Polish research reactors. (E36, E37). | 484993 |

| | |
|---------------------|--|
| EXCHANGE (CHARGE): | |
| See CHARGE EXCHANGE | |

| | |
|-------------------|--|
| EXCHANGE (HEAT): | |
| See HEAT TRANSFER | |

| | |
|------------------|--|
| EXCHANGE (ION): | |
| See ION EXCHANGE | |

| | |
|-----------------------|--|
| EXCHANGE (ISOTOPIC): | |
| See ISOTOPIC EXCHANGE | |

| | |
|-------------------------------|--|
| EXCHANGE INTERACTIONS: | |
| (Not for chemical reactions.) | |

| | |
|--|--------|
| High order contributions to the hyperfine structure in positronium and muonium. (A12). | 459713 |
|--|--------|

| | |
|--|--------|
| eigenvalues | |
| Eigenvalues and eigenvectors of the exchange interaction Hamiltonian of Heisenberg. (A11). | 481003 |

| | |
|--|--------|
| eigenvectors | |
| Eigenvalues and eigenvectors of the exchange interaction Hamiltonian of Heisenberg. (A11). | 481003 |

| | |
|---|--------|
| gluon model | |
| Three gluon exchange contribution to forward high energy scattering. (A21). | 462548 |

| | |
|--|--------|
| spin waves | |
| Eigenvalues and eigenvectors of the exchange interaction Hamiltonian of Heisenberg. (A11). | 481003 |

| | |
|--|--------|
| strangeness | |
| Strangeness-exchange and strange nuclei. (A33, A21, A34, A22). | 478623 |

| | |
|--|--------|
| uranium ions | |
| Magnetic exchange interaction in amide complexes of uranium (IV) tetrachloride. (A13). | 489029 |

| | |
|-----------------------|--|
| EXCISION REPAIR: | |
| See BIOLOGICAL REPAIR | |

| | |
|--|--|
| EXCITATION: | |
| (Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state.) | |

| | |
|--|--------|
| See also COULOMB EXCITATION | |
| cross sections | |
| A comparison between the Born and Coulomb-Born approximations for high energy electron impact excitation of helium-like ions. (A12). | 481031 |

| | |
|--|--------|
| nuclei | |
| Microscopic theory of elementary excitations of nuclei. (A33). | 490046 |

| | |
|--|--------|
| spin orientation | |
| Spin polarization of electron mercury 6 ¹ P excitation scattering for hundreds eV electrons. (A12). | 471416 |

| | |
|--|--------|
| stopping power | |
| Mean excitation energies for stopping power as derived from oscillator-strength distributions. (C55). [Data] | 466363 |

| | |
|--|--------|
| sum rules | |
| Sum rules for spin-dependent excitations of nuclei. (A33). | 483802 |

| | |
|---|--------|
| time dependence | |
| Theory of chemiexcitation: some consequences of the time - scale inhomogeneity of molecular events in photonic and charge - transfer excitation in fluid solution. (A12). | 485472 |

- weakly ionized gases**
Study of the spatial variation of macroscopic quantities in a weakly ionized gas. (A12). [Data] 488880
- EXCITATION FUNCTIONS:**
- ericson theory**
Statistical analysis of excitation functions with different averaging intervals. (A33). 493155
- neutron reactions**
On (n,n) excitation functions. (A33). 486204
- oxygen 16 reactions**
Reactions induced by ^{16}O and ^{18}O ions on ^9Be . (A34). 478715
- oxygen 18 reactions**
Reactions induced by ^{16}O and ^{18}O ions on ^9Be . (A34). 478715
- proton reactions**
Measurement and hybrid model analysis of excitation functions of proton-induced reactions with titanium, vanadium, iron, cobalt and nickel in the energy range of 10-45 MeV. (A34). [Data] 460327
- EXCITED STATES:**
See also METASTABLE STATES; ROTATIONAL STATES; VIBRATIONAL STATES
- analytic functions**
Study on the resonance and antibound states on the basis of analytical continuation by the coupling constant. General approach. (A33). 468311
- chemiluminescence**
Excited singlet and triplet products generated from air oxidation of the molecules with a -CO-CH- group. (A12). 485466
- configuration interaction**
Ab initio configuration interaction calculations on the hydrogen molecular excimer, H_4^+ . (A12). 488813
- electron capture**
Electron capture in an arbitrary excited s state by protons passing through hydrogenic ions. (A12). [Data] 471394
- electron spectroscopy**
Dissociation, ionization, light- and electron-emission processes studied by optical, mass and electron spectroscopy. (A12). 467242
- emission spectroscopy**
Spectroscopy of atomic processes in plasma. (A14). 467548
- energy transfer**
Electronically excited species in the peroxidase catalyzed oxidation of indoleacetic acid. Effect upon DN and RNA. (A12). 485547
- equilibrium**
Rates and equilibria for thermal production of electronically excited states. (A12). 485497
- finite-range interactions**
Study on the resonance and antibound states on the basis of analytical continuation by the coupling constant. General approach. (A33). 468311
- heterocyclic compounds**
A consideration of mechanism and excited state products from dioxetane thermolyses. (A12). 485510
- ion spectroscopy**
Spectroscopy of atomic processes in plasma. (A14). 467548
- isomer shift**
Isomer shift of neutron resonances. (A34). 465078
- lande factor**
The g-factors of excited states in ^{203}Tl measured by transient field interaction at high recoil velocities. (A34). 490172
- lifetime**
Corrections to the zero order description of the recoil distance method for the lifetime measurements of excited nuclear states. (A33). 486214
- The measurement of the lifetimes of excited nuclear states. (A34). [Data] 462637
- nuclear electric moments**
Measurement of electric quadrupole interaction in 482-keV level of ^{181}Ta using a germanium detector. (A13). 481112
- oxidation**
A chemi-energized process in the ozonation of valerophenone oxime methyl ether. (A12). 485489
- radiative corrections**
Relativistic corrections to the energy levels of hydrogen atoms in a strong magnetic field. (A12). 488922
- reaction kinetics**
Reactions of the excited states of substituted polypyridinechromium(III) complexes with oxygen, iron(II) ions, ruthenium(II) and -(III), and osmium(II) and -(III) complexes. (B12). 460446
- temperature dependence**
Rates and equilibria for thermal production of electronically excited states. (A12). 485497
- EXCITONS:**
Excitons in solids. (A13). 474732
- cadmium sulfides**
Creation of bi-excitons in CdS by bombardments of MeV heavy charged particles. (A13). 489028
- cathodoluminescence**
Electron beam excited free exciton luminescence of GaSe. (A13). 462235
- copper chlorides**
Application of the extended effective mass theory to the exciton spectra of CuCl. (A13). 462205
- copper oxides**
Application of the extended effective mass theory to the exciton spectra of Cu_2O . (A13). 462204
- emission spectra**
Emission spectra of excitons created in a single crystal of KBr by irradiation of heavy ions at 4.2 K. (A13). [Data] 489004
- lifetime**
Evidence for a triplet state of the self-trapped exciton states in liquid argon, krypton and xenon. (A12). [Data] 474609
- superconductivity**
Excitonic superconductivity. (A17). 471945
High temperature superconductivity in CuCl. (A17). 471946
A possible mechanism of high temperature superconductivity. (A17). 471944
Superconductivity of macrometals. (A17). 471953
- triplets**
Evidence for a triplet state of the self-trapped exciton states in liquid argon, krypton and xenon. (A12). [Data] 474609
- EXCLUSIVE INTERACTIONS:**
(The group of all interactions of two particles producing a specific final state but excluding the final-state particle itself.)
- quantum chromodynamics**
Exclusive processes and the exclusive-inclusive connection in quantum chromodynamics. (A21, A11). 478413
- EXCRETION:**
See also LUNG CLEARANCE; RENAL CLEARANCE
- dtpa**
Influence of DTPA and macro-amounts of iron combined with DTPA on distribution and excretion of plutonium-239 from rat organism. (C21). 484577
- iodine 131**
The differentiation of biliary atresia from neonatal hepatitis comparing radioisotope excretion tests and also by using a new isotope. (C21, C62). 487294
- iron**
Influence of DTPA and macro-amounts of iron combined with DTPA on distribution and excretion of plutonium-239 from rat organism. (C21). 484577
- technetium**
The differentiation of biliary atresia from neonatal hepatitis comparing radioisotope excretion tests and also by using a new isotope. (C21, C62). 487294
- tritium compounds**
Biological half-life of tritium in humans. (C21). [Data] 491036
- EXCURSIONS:**
Fuel vapor pressure (FVAPRS). (C52, E31, E32; BWR;PWR). 480113
Prompt burst energetics (PBE) studies. (C52, E35). 480132
Validation of the computer code ARES for calculating the tank load under overpower conditions. (E35, C51). 461777
- e codes**
Analysis of self limiting reactor excursion. (C52). 482210
- fuel element failure**
Fuel pin modeling of the fresh oxide/sodium prompt burst energetics experiments. (C52, E35; LMFBFR). 461329
Fuel rod behavior during a reactivity initiated accident at energy depositions near 280 cal/g UO_2 . (C52, E31). 487572
Light water reactor fuel response during reactivity initiated accident experiments. (C52, E31). 491173
- reactor safety**
Analysis of self limiting reactor excursion. (C52). 482210
- EXO-ELECTRON DOSEMETERS:**
Fabrication of materials for exoelectron detectors. (E41). 482831
- beryllium oxides**
Surface effects during exoelectron-emission of BeO ceramics. (A13, E41). 483280
- EXOTIC ATOMS:**
See HADRONIC ATOMS
- EXOTIC RESONANCES:**
- exchange degeneracy**
Duality, exchange-degeneracy breaking, and exotic states. (A21). 489798
- excited states**
Di-nucleon exotics and quark statistics. (A21). [Data] 472006
- mass spectra**
Di-nucleon exotics and quark statistics. (A21). [Data] 472006
Session A5: hadron spectroscopy, experimental. (A22). 489972
- quantum chromodynamics**
Pseudomesoniums. (A21). 481422
- regge trajectories**
Semiclassical approach to the quark-string model and the hadron spectrum. II. Baryons and exotic hadrons. (A21). 464818
- EXP. BREEDER REACTOR-2:**
See EBR-2 REACTOR
- EXP. GAS COOLED REACTOR:**
See EGCR REACTOR
- EXPANSION:**
See also PLASMA EXPANSION
- EXPECTATION VALUE:**
- atomic number**
On the systematic linear variation of atomic expectation values. (A12). 471324
- mathematical models**
Bound-state calculations for certain model potentials by means of a phase-integral method. (A11). 488731
Phase-integral method applied to the symmetric double-well potential problem. (A11). 488691
- EXPER. FACILITIES (ACCELER.):**
See ACCELERATOR FACILITIES
- EXPERIMENTAL CHANNELS:**
- neutron flux**
Autonomous neutron flux control on the outlet of reactor experimental channels. (E24). 480613
- EXPERIMENTAL NEOPLASMS:**
See also EHRLICH ASCITES TUMOR

- biological radiation effects**
Effect of ultrasound on ionizing radiation effects, 4. (C14). 476559
Radiobiological analysis of dose-time dependences for experimental neoplasm irradiation. (C14). 479808
- dose-response relationships**
Regression, recurrence and cure in an irradiated mouse tumour. (C63). [Data] 463468
- dynamic function studies**
Investigation of the growth kinetics of a solid experimental tumor by non-invasive methods. (C45). 466261
- heat treatments**
Thermo-radiotherapy. (C63). 473498
- hypothermia**
Modification of postradiation developments in Guerin's tumour by means of hypothermia. (C14). 469641
- local irradiation**
Modification of postradiation developments in Guerin's tumour by means of hypothermia. (C14). 469641
- metastases**
Influence of localized preinoculation irradiation of the foot on lymphatic metastasis from a primary tumor growing in the foot. (C14, C63). [Data] 476567
- mice**
Observations on the effect of radiotherapy, followed by injection of pig lymph node cells, in reducing the number of pulmonary tumors induced by intravenous injection of tumor cells into isogenic mice. (C14). 472974
- ph value**
RS-1 tumor pH changes in the course of growth and after irradiation under hypothermia and tourniquet hypoxia conditions. (C14). 466016
- radiosensitizers**
Modification of radiosensitivity by electron-acceptor compounds and hypoxic states. (C14). 463109
- response modifying factors**
Extracorporeal blood irradiation effects on protein spectrum in rabbits with metastatic Brown-Pearls carcinoma. (C45). 463331
- EXPERIMENTAL REACTORS:**
(For engineering testing of reactor components such as fuel elements, cooling systems, etc.)
Criticality design evaluation of the White Sands reactor building storage vault. (E36). 474009
- power**
Choice of power level for an experimental reactor. (E36). 466737
- reactor maintenance**
Design guide for category V reactors transient reactors. (E36). 492021
- reactor operation**
Design guide for category V reactors transient reactors. (E36). 492021
- specifications**
Design guide for category V reactors transient reactors. (E36). 492021
- EXPLODING WIRES:**
Loading technique for dynamic response studies of geological materials. (B31, E17). 487066
- foils**
Search for exploding foil switches suitable for fast energy transfers. (A14). 471602
- holography**
Pulsed holographic interferometry of high density Z-pinch and exploding lithium wire plasmas. (A14). 459976
- neutrons**
Fusion neutron production in low energy deuterated exploding wire experiment. (A14). 492826
- plasma diagnostics**
Holographic interferometry of a high-energy-density exploding lithium wire plasma. (A14). 478156
- radiation detectors**
Pulsed holographic interferometry of high density Z-pinch and exploding lithium wire plasmas. (A14). 459976
- EXPLORATION:**
electronic equipment
Instrumentation as applied to source material exploration. (B31). [Data] 469532
- ores**
Device for geophysical exploration of ore deposits. (B31). 469521
- public opinion**
Bayda revisited: clear arguments prevail. (C52). 461166
- radiation detectors**
Instrumentation as applied to source material exploration. (B31). [Data] 469532
- savannah river plant**
Summary of exploration drilling in F area for hydrogeologic information. (B31). 479638
- uranium**
Exploration for uranium: getting warmer. (B31). 460825
Saskatchewan looks to uranium boom. (B31). 460827
- x-ray fluorescence analysis**
X-ray analytical techniques in the investigation of some mineral potential of Thailand. Comparison with neutron activation analysis. (B11, B31, D22). 475889
- EXPLOSIONS:**
See also ATMOSPHERIC EXPLOSIONS; CHEMICAL EXPLOSIONS; CRATERING EXPLOSIONS; EXPLODING WIRES; NUCLEAR EXPLOSIONS; RIO BLANCO EVENT; UNDERGROUND EXPLOSIONS
- eigenvalues**
Polymorphic detonation. (A13, E14). 467453
- viscous flow**
Polymorphic detonation. (A13, E14). 467453
- EXPLOSIVE INSTABILITY:**
numerical solution
Numerical study of the explosive instability in a beam-plasma system. (A14). 459922
- EXPLOSIVES:**
See also CHEMICAL EXPLOSIVES; NUCLEAR EXPLOSIVES
- monitoring**
Progress in the development of explosives materials detectors. (E30). 488025
- surface treatments**
Investigations of surface treatment of propellant grains using labelled substances. (D24). 484813
- EXPONENTIAL PILES:**
See SUBCRITICAL ASSEMBLIES
- EXPOSURE (RADIATION DOSES):**
See RADIATION DOSES
- EXPOSURE CHAMBERS:**
aerosol monitoring
Microprocessor-controlled inhalation system for repeated exposure of animals to aerosols. (C52). 476684
- irradiation**
The small Essen high-pressure oxygen chamber for experimental animals. (E13, C14). 482575
- specifications**
System for exposure of animals to nitrogen dioxide. (E42). 471010
- EXPOSURE RATEMETERS:**
performance testing
Control device intended for a gamma radiation measuring instrument. (E41). 474061
- specifications**
Victoreen panoramic 470 A survey meter. (E41). 470844
- EXTENDED PARTICLE MODEL:**
See also BAG MODEL; STRING MODELS
- hadrons**
Quantum field theory of extended particles as a model of hadrons. (A21). 475613
- mass formulae**
Representations of the Poincare group for relativistic extended hadrons. (A21). 489825
- poincare groups**
Representations of the Poincare group for relativistic extended hadrons. (A21). 489825
- solitons**
Extended objects in quantum systems and soliton solutions. (A11). 467085
- EXTENSIVE AIR SHOWERS:**
Characteristics of superpower extensive air showers at the sea level. (B33). 484400
- On beams of penetrating particles local producing at a depth of 200 m w.e. (A15). 483438
- cherenkov radiation**
Akeno air shower project. (E41, A15). 492113
Atmospheric Cerenkov study of the development of cosmic-ray showers. (A15). 489645
Further investigations of the pulse shape of the Cherenkov radiation of the extensive air showers at the Yakutsk installation. (B33). 484401
- cosmic ray detection**
National cosmic ray facility to study high energy physics and primary composition from 10^{14} to 10^{18} eV. (A15, E41). 489535
Simultaneous detection of γ -ray bundles and air showers. (A15, E41). 489455
- earth atmosphere**
Investigation of extensive air showers in the upper atmosphere and some characteristics of nuclear interactions of particles with energy of approximately 10^{15} eV. (B33). 484387
- electric fields**
Extensive air showers and radio frequency electromagnetic fields. (A15). 475411
- electrons**
Estimation of main parameters of interaction and primary cosmic ray composition for 10^{14} - 10^{16} eV energies based on Thian-Shan station data. (B33). 484422
Investigation of characteristics of extensive air showers with primary energy less than 2×10^{14} eV. (B33). 484389
Lateral structure of electrons in an extensive air shower. (A15). 481322
Spatial distribution function of electrons in extensive air showers at 1700 m altitude above the sea level. (B33). 484386
- energy spectra**
High energy cosmic rays, particle physics and astrophysics. (A15, A21). 489521
- flux density**
Preliminary results for the abundance of multicore EAS at Mt. Norikura. (A15, E41). 489399
- hadrons**
On scaling breakdown and the ways of modification of the elementary act model in the range of ultra-high energy. (A22, A21). 483710
Slow-energy hadrons in extensive air showers. (B33). 484388
- inclusive interactions**
On a part of the fragmentation and pionization regions of inclusive spectra in developing the extensive air showers. (B33, A21). 484408
- main**
Estimation of main parameters of interaction and primary cosmic ray composition for 10^{14} - 10^{16} eV energies based on Thian-Shan station data. (B33). 484422
Estimation of mass of primary cosmic ray particles at 10^{12} - 10^{16} eV energies based on investigation into fluctuations of relation of

- muon number to electron number. (B33). 484428
Investigation of characteristics of extensive air showers with primary energy less than 2×10^{14} eV. (B33). 484389
Investigation of the muon component of extensive air showers. (B33). 484410
On scaling breakdown and the ways of modification of the elementary act model in the range of ultra-high energy. (A22, A21). 483710
Spatial distribution of muons in extensive air showers: experiment, calculations. (B33). 484411
- particle interactions**
High energy interactions at cosmic ray energies. (E41, A15, A21). 492135
- particle production**
Observation of energetic delayed hadrons in extensive air showers - new massive particles. (A22). 489953
- radiowave radiation**
Extensive air showers and radio frequency electromagnetic fields. (A15). 475411
- spatial distribution**
Report on the Utah fly's eye. (E41, A15, A22). 492070
Spatial structure of extensive air showers near the axis. (B33). 484385
- transverse momentum**
High transverse momentum of γ -ray bundles ($> 10^{12}$ eV) in air showers. (A15). 489666
High transverse momentum of atmospheric γ -ray bundles ($> 10^{12}$ eV) estimated from their RE distributions. (A15). [Data] 481293
- EXTENSOMETERS:**
specifications
Linear variable differential transformer and its uses for in-core fuel rod behavior measurements. (E23, E42). 488009
- EXTERNAL IRRADIATION:**
See also EXTRACORPOREAL IRRADIATION; PARTIAL BODY IRRADIATION; WHOLE-BODY IRRADIATION
Determination of conversion factors between body doses and relevant radiation quantities for external X-ray and gamma irradiation. (C55, C53). 494477
- EXTERNAL MAGNETIC FIELDS:**
See MAGNETIC FIELDS
- EXTRACELLULAR SPACE:**
whole-body counting
Evaluation of one dimensional profile scans with a whole body counter - 82 bromide space in liver cirrhosis: Concise communication. (C62, C21). 487737
- EXTRACORPOREAL IRRADIATION:**
(In vivo irradiation of organ, tissue or body fluid while outside the body.)
blood
Radiobiological effect of re-transfusion of extracorporeally irradiated blood. (C14, C15, C11). 466070
immunity
Immunodepression in re-transfusion of extracorporeally irradiated blood. (C11, C15). 465916
neoplasms
Effects of single irradiated syngeneic blood transfusion on growth and metastatic spread of Louis tumors. (C11, C14). 465917
radiosensitivity
Radiosensitivity modification and increase in hemopoietic stem-cell pool size after re-transfusion of extracorporeally irradiated blood. (C14, C11). 466071
stimulation
Extracorporeally irradiated blood as a biogenic stimulator of some physiological processes in the body. (C14, C11). 466069
- EXTRACTION (BEAM):**
See BEAM EXTRACTION
- EXTRACTION (SOLVENT):**
See SOLVENT EXTRACTION
- EXTRACTION APPARATUSES:**
See also EXTRACTION COLUMNS
Automatic liquid-liquid extraction system. (B16). 462814
- EXTRACTION CHROMATOGRAPHY:**
Extraction chromatography of ions of metals and nonmetals. (B12; Extraction chromatography of radioisotopes, alkali metals, alkaline earth metals, halides, sub-group B elements of the first second and fourth groups chromium, sub-group elements, aluminium sub-group elements, iron group elements). 468859
Immovable phases in extraction chromatography. (B11). 468620
Theoretical aspects of extraction chromatography. (B12). 468848
Use of laminar chromatographic methods for determination of separation conditions in column extraction chromatography. (B11). 468621
- EXTRACTION COLUMNS:**
mass transfer
Analysis of backmixing and mass transfer in solvent extraction columns. (B11). [Data] 486534
mixing
Analysis of backmixing and mass transfer in solvent extraction columns. (B11). [Data] 486534
on-line measurement systems
Process monitor design for an extraction column: an application of estimation/detection. (F41, B16). 492313
simulation
Development of calculation technique and pulsating extraction columns modelling. (B16). 486832
tracer techniques
Time of residue of the liquid and gas phase in large bubble columns with radioactive tracers. (D24, D22, B12). 470285
- EXTRACTIVE METALLURGY:**
See also FLUORIDE VOLATILITY PROCESS; HYDROMETALLURGY;
- PYROMETALLURGY**
EXTRAPOLATION CHAMBERS:
soft x radiation
A primary standard for the determination of absorbed dose in a phantom for X-rays generated at potentials of 7.5 to 30 kV. (E41, D15, C55). 485035
- EXTRAPOLATION LENGTH:**
control elements
Calculation of the extrapolation length in shifting control elements within the control channel. (E21). 470501
- EXTREME ULTRAVIOLET RADIATION:**
(Wavelength range 400-100 Å.)
spectroscopy
The importance of spectroscopy in the 80-800 Å region for plasma diagnostics in the solar atmosphere. (A15). 460059
- EXTREMELY HIGH FREQ RADIATION:**
See MICROWAVE RADIATION
- EYE CATARACTS:**
See CATARACTS
- EYES:**
See also CONJUNCTIVA; CORNEA; CRYSTALLINE LENS; RETINA
arteries
Recurrent cavernous branches of the ophthalmic artery. (C61). 473367
biochemistry
Biochemical studies on the ocular lens in relation to cataractogenesis. Final report, July 1, 1968 - December 31, 1978J. (C14; X radiation). 479837
biological radiation effects
Biochemical studies on the ocular lens in relation to cataractogenesis. Final report, July 1, 1968 - December 31, 1978J. (C14; X radiation). 479837
Estimated cumulative probabilities for clinical eye lesion occurrence in beagles irradiated at various ages. (C14; Gamma radiation). [Data] 479843
Follow-up of anterior eye segment status in albino rats given chronic low-level gamma-ray doses. (C14). 466134
body fluids
The alpha and gamma crystallin content in aqueous humor of eyes with clear lenses and with cataracts. (C45). 476659
carcinomas
Carcinoma of the eyelid. (C63). 461424
flash burns
PLZT thermal/flash protective goggles: device concepts and constraints. (C54; USAF EEU-2/P). 494454
nerves
Selection of appropriate medial branch of the optic tract by fibres of ventral retinal origin during development and in regeneration: an autoradiographic study in *Xenopus*. (C31). [Data] 487325
radiation doses
Determination of gonad, eye and bone marrow doses with EMI-5005 head and whole body scans. (C55). [Data] 491252
Effectiveness of glass lenses in reducing exposure to the eyes. (C15, C60, C54). 469676
Postero-anterior radiography: a method for reduction of eye dose. (C15, C60). 469720
Simple eye protection shield for special procedures. (C15, C60, C54). 469730
Simple method of protecting the eye from scattered radiations during mantle-field therapy. (C15). 469681
Study of the dose to the thyroid and the eye in computed tomography of the brain. (C15, C60). 469718
Value of conventional eyeglasses for x-ray protection. (C15, C60, C54). 469679
radiation injuries
 ^{226}Ra , ^{210}Pb , ^{210}Po , and calcium in the eyes of long-term radium cases. (C21). [Data] 479942
radiation protection
Effectiveness of glass lenses in reducing exposure to the eyes. (C15, C60, C54). 469676
Postero-anterior radiography: a method for reduction of eye dose. (C15, C60). 469720
Simple eye protection shield for special procedures. (C15, C60, C54). 469730
Simple method of protecting the eye from scattered radiations during mantle-field therapy. (C15). 469681
Value of conventional eyeglasses for x-ray protection. (C15, C60, C54). 469679
radiotherapy
Proton irradiation of malignant melanoma of the ciliary body. (C63). 473502
Teleroentgenotherapy of some nontumour eye diseases. (C15). 466187
scintiscanning
Diagnostic possibilities of scintigraphy in orbital diseases. (C62). 487686
skin diseases
Carcinoma of the eyelid. (C63). 461424
wounds
Aqueous humor from traumatized eyes triggers cell division in the epithelia of cultured lenses. (C14). [Data] 472976
- E1-TRANSITIONS:**
(Electric dipole transitions.)
energy-level transitions
E1 and M2 transitions in the neon isoelectronic sequence. (A12). 463984
form factors
Possibility of isoscalar E1 broad resonance. (A33). 481482
photonuclear reactions
E2-E1 interference from angular distributions of photoneutrons from lead isotopes. (A34). 465097

- spin flip**
A note on spin-flip electric dipole transitions. (A12). 481021
- E2-TRANSITIONS:**
(Electric quadrupole transitions.)
- boron 10**
Interpretive model for ^{10}B . (A33). 472171
- hartree-fock-bogolyubov theory**
Electromagnetic moments and transitions in deformed nuclei. (A34). [Data] 486397
- photonuclear reactions**
E2-E1 interference from angular distributions of photoneutrons from lead isotopes. (A34). 465097
- F CENTERS:**
calcium fluorides
Correlation of thermoluminescence and the F-center annealing in undoped CaF_2 after reactor irradiation at low temperature. (A13). [Data] 481060
- equilibrium**
Dynamic equilibrium between F and F_2 centres in alkali halides at room temperature. (B25). 472751
- spin-lattice relaxation**
Measurements of spin-lattice relaxation time of F centers in KCN crystals. (A13). 471514
- F CODES:**
bessel functions
On numerical Bessel transformation. (F51). 485251
- dubna synchrocyclotron**
Computer calculation of RF dee voltage program for the JINR synchrocyclotron. (E16, F51). 477046
- electric potential**
Computer calculation of RF dee voltage program for the JINR synchrocyclotron. (E16, F51). 477046
- rewetting**
Development of reflood codes FLIRA and PSCHIT. Physical modeling and interpretation of ERSEC experiments. (E31, E32). 466663
- F REGION:**
See also F2 LAYER; SPREAD F
- eclipse**
Wavelike variations in the F-region in the path of totality of the eclipse of 23 October 1976. (A15, B33). 471774
- electron density**
Incoherent scatter investigation of the properties of internal gravity waves in the ionospheric F-region. (B33). [Data] 479703
- gravity waves**
Total electron content and F-region electron density distribution near the magnetic equator in India. (B33). 481968
- hydrogen**
Incoherent scatter investigation of the properties of internal gravity waves in the ionospheric F-region. (B33). [Data] 479703
- mathematical models**
Modeling the effects of an H_2 gas release on the equatorial ionosphere. (B33). [Data] 465821
- plasma heating**
Calculated ionospheric variations due to changes in the solar EUV flux measured by the AEROS spacecraft. (B33, A15). [Data] 463021
- plasma instability**
Temperature domains in the ionosphere. (A14, B33). 467680
- reaction kinetics**
Ionospheric instabilities and fine structure. (B33). 494233
- ionosphere. (B33). [Data]**
Modeling the effects of an H_2 gas release on the equatorial ionosphere. (B33). [Data] 465821
- F*RESONANCES:**
weak hadronic decay
Enhancement of $F \rightarrow D\pi$ and $\Delta I = 1/2$ rule. (A21). [Data] 481400
- F-1260 RESONANCES:**
decay
Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). 471972
- electroproduction**
Production and decay of charmed particles in e^+e^- collisions. (A21; Lectures). 471972
- particle production**
Meson-resonance production in p-p interactions at 53-GeV (c.m.) energy. (A22). 468166
- Pomeron and f exchange in elastic and inelastic scattering. (A21).** 468084
- F-2030 RESONANCES:**
weak hadronic decay
Enhanced and suppressed two-and three-body nonleptonic decays of charmed mesons. (A21). 493067
- FABRICATION:**
See also ARC WELDING; BONDING; CASTING; COLD WORKING; DIFFUSION WELDING; ELECTRON BEAM WELDING; ELECTROSLAG WELDING; FASTENING; GAS TUNGSTEN-ARC WELDING; LASER WELDING; PLASMA ARC WELDING; RESISTANCE WELDING; SINTERING; SUBMERGED ARC WELDING; WELDING
- FABRY-PEROT INTERFEROMETER:**
airy functions
Analysis of moire figures using interferometric lattices with Airy perfiles. (A32). [Data] 486180
- nonlinear problems**
Theoretical and experimental study of the dynamic behavior of a nonlinear Fabry-Perot interferometer. (E42, A11). 477424
- performance**
Characterization of a Fabry-Perot interferometer and a dc arc plasma jet for spectrochemical analysis. (B11). 460389
- FACE:**
See also NOSE
- radiation doses**
Small electron beams in radiation therapy. (D15, C63, C15; Phantom dosimetry studies). 473577
- FACE CENTERED CUBIC:**
See FCC LATTICES
- FACULAE:**
Spots and faculae. (A15; Illustrated glossary). 460034
- images**
The direct photograph of solar faculae and sunspots with a balloon-borne 10 cm telescope. (3). (A15). 489522
- star models**
A model of solar faculae and their lifetime. (A15). 464589
- FADDEEV EQUATIONS:**
many-body problem
On a new generalization of the Faddeev equations. (A11). 492427
- perturbation theory**
Treatment of three-body scattering problems in coordinate space. (A33). 472206
- three-body problem**
Formulation of the perturbational approach to the Faddeev equation including a tensor force for the three-nucleon bound state. (A33). 472205
- FAEROE ISLANDS:**
radioactivity
Environmental radioactivity in the Faroes in 1977. (B32, B33, C22). 462977
- FAILED ELEMENT DETECTION:**
Detection of gas-permeable fuel particles for high-temperature gas-cooled reactors. (E33). 473939
- Monitoring fuel for defects. (E23, E31, E32).** 477140
- accuracy**
Inspecting method for fuel rods. (E22). 470556
- acoustic emission testing**
Method for the localization of leaky fuel cans and arrangement for the carrying-out of the method. (E31, E32, E17). 477207
- coolants**
Failed fuel detecting method. (E23). 477149
- Method of detecting failed fuels. (E31).** 473877
- failed element monitors**
Method to identify leaking components in a multicomponent system. (E23). 482714
- fission product release**
Gaseous fission-product detector for LMFBR failed-fuel detection. (E35). 477284
- fission products**
Method and apparatus for detecting failed fuel elements. (E32). 491904
- Present state in fission product leak control of fuel elements. (E22).** 484904
- fuel element failure**
Method to identify leaking components in a multicomponent system. (E23). 482714
- iodine isotopes**
Method for operating nuclear reactor. (E31). 477223
- leak detectors**
On the most favourable construction of tag systems. (E22, E23). 473778
- lmfbr type reactors**
Detection device for fuel failure. (E35). 492001
- measuring methods**
Ultra-sensitive detection of defective fuel rods (sipping test) with low core burn-up and long-decay period. (E23). 470573
- mechanical structures**
Failed element detector. (E31). 482752
- sampling**
Method of detecting fuel leakage. (E23). 470562
- ultrasonic testing**
Arrangement for the localization of failed fuel rods of a reactor fuel element. (E32, E17). 482772
- Method for the detection of defective nuclear fuel assemblies. (E31, E32).** 473867
- wire spark chambers**
Detecting device for gaseous fission products. (E23). 473806
- FAILED ELEMENT MONITORS:**
delayed neutrons
Process and system for detecting and pre-locating a clad failure in a fast neutron nuclear reactor. (E41, E35). 470931
- ebz-2 reactor**
Identification of failed fuel element. (E35). 461759
- performance testing**
Fuel failure detection experiment using UO_2 -loaded sodium in-pile loop. (E24, E41, E35). 466643
- specifications**
Fuel rod leak detector. (E22; Patent). 461632
- FAILURE MODE ANALYSIS:**
reinforced concrete
A theoretical study of reinforced concrete structures under missile impact loading. (C52). 476670
- FAILURES:**
See also FRACTURES; RUPTURES
- mathematical models**
Mathematical formulations of failure criteria for the case of multiaxial stress. (E22). 482697
- probability**
Probabilistic assessment of light water reactor fuel performance. (E31, E32). 480630
- statistics**
The operation of measuring and control systems of the Biblis nuclear power station A. (E32, E24). 484956

FALLOUT:

(For radioactive fallout only.)

See also **FALLOUT DEPOSITS**; **GLOBAL FALLOUT**; **LOCAL FALLOUT**; **WASHOUT**

- biological radiation effects**
Fallout radiation and its impact on man. (C21). 482105
- cesium 137**
⁹⁰Sr and ¹³⁷Cs in rain and dry fallout. (B33). [Data] 490859
- chemical analysis**
Analyses of quality control samples at EML and contractor laboratories during 1978. (B11, C22, B32, B33). [Data] 475878
- delayed radiation effects**
Late effects of radiation: cytogenetic study on peripheral lymphocytes of atomic bomb survivors of Hiroshima. (C15). 461074
- forecasting**
Possible ways to predict stratospheric fallout. (B33, C52, A14). 469571
- gamma spectroscopy**
Analysis of hot particles from the nineteenth Chinese nuclear test explosion by Ge(Li) gamma-ray spectrometry. (B33). 469575
- genetic radiation effects**
Late effects of radiation: cytogenetic study on peripheral lymphocytes of atomic bomb survivors of Hiroshima. (C15). 461074
- india**
Annual fallout of ³²Si, ²¹⁰Pb, ²²Na, ³⁵S and ⁷Be in rains in India. (B33). [Data] 484413
- leukemogenesis**
Childhood leukemias associated with fallout from nuclear testing. (C15, B33, E14; Incidence in Utah children under 15 years old between 1951 and 1958). [Data] 473010
- particle size**
Radioactive fallout from Chinese nuclear weapons test of March 15, 1978. (B33; ¹²⁴Sb, ¹³¹I). [Data] 479732
- radiation monitoring**
Estimating the fallout on Great Slave Lake from Cosmos-954. (B33, B32). 472871
- Radioactivity investigation following the 23rd Chinese nuclear test. (B33). 463009
- radioactivity**
Radionuclide ratios in wet and dry deposition samples from June 1976 through December 1977. (B33). 460914
- radioecological concentration**
Radioactive fallout from Chinese nuclear weapons test of March 15, 1978. (B33; ¹²⁴Sb, ¹³¹I). [Data] 479732
- rain water**
Annual fallout of ³²Si, ²¹⁰Pb, ²²Na, ³⁵S and ⁷Be in rains in India. (B33). [Data] 484413
- strontium 90**
⁹⁰Sr and ¹³⁷Cs in rain and dry fallout. (B33). [Data] 490859
- sweden**
The transfer factor of dairy milk from fallout of nuclear explosions to the activity concentration in milk with respect to ¹³⁷Cs and ⁹⁰Sr. (C22, B31). 491057
- united kingdom organizations**
The national scheme for monitoring radioactive fallout in milk. (C43). 479985
- washout**
Introduction to self-induced rainout. (B33). 479711

FALLOUT DEPOSITS:

- beta detection**
Analysis of fresh fallout from Chinese tests by beta counting technique. (C52, E41). 473243
- dose commitments**
¹³⁷Cs in the human body. (C21, C22, C55). 491047
- quantitative chemical analysis**
Radioactive fallout in air and rain: results to end of 1978. (B33). [Data] 481952
- radiation monitoring**
Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). 470006
- radioactivity**
Quarterly ⁹⁰Sr deposition at world land sites. (B33, B31). [Data] 476495

FANO FACTOR:

- binary mixtures**
Fano factor in gas mixture of Ar + 10% CH₄. (E41). 492116
- ionization chambers**
Fano factor in gas mixture of Ar + 10% CH₄. (E41). 492116
- measuring methods**
Ionization fluctuations in a gaseous medium. Part 2. Experimental results. (E41, A12). 485122

FANS:See **BLOWERS****FAR INFRARED RADIATION:**

- (Wavelength range 50-1000 microns)
- ghz range 01-100**
The sensitivity of a glow discharge plasma to millimeter-wave radiation at cyclotron resonance. (A12). 464075

FAR ULTRAVIOLET RADIATION:

- (Wavelength range 2000-400 Å.)
- comparative evaluations**
Action spectra for the ultraviolet and visible light inactivation of phage T7: effect of host-cell reactivation. (C12). 461020
- spectroscopy**
The importance of spectroscopy in the 80-800 Å region for plasma diagnostics in the solar atmosphere. (A15). 460059

FARADAY CAGES:See **FARADAY CUPS****FARADAY CUPS:**

- accelerators**
Faraday cup for measuring beams of a heavy ion accelerator. (E16). 487913
- beam currents**
Faraday cups to measure high power pulsed relativistic electron beam currents. (E42). 495167
- FARADAY GENERATORS:**
See **MHD GENERATORS**
- FARLEY-1 REACTOR:**
radiation doses
Survey of neutrons inside the containment of a pressurized water reactor. (E32). 488070
- radiation streaming**
Survey of neutrons inside the containment of a pressurized water reactor. (E32). 488070
- FARLEY-2 REACTOR:**
radiation doses
Survey of neutrons inside the containment of a pressurized water reactor. (E32). 488070
- radiation streaming**
Survey of neutrons inside the containment of a pressurized water reactor. (E32). 488070
- FAEROE ISLANDS:**
See **FAEROE ISLANDS**
- FAST BREEDER TYPE REACTORS:**
See **FBR TYPE REACTORS**
- FAST EXPERIM. BREED. REA. JAPA:**
See **JOYO REACTOR**
- FAST FISSION:**
beta decay
Fission product decay energy release rate data for fast reactors. (A34, E21). 481585
- energy yield**
Fission product decay energy release rate data for fast reactors. (A34, E21). 481585
- fission neutrons**
Measurement of fission neutron energy spectrum of ²³⁵U and ²³⁸U induced by fast neutrons. (A34). 462627
- reviews**
Nuclear fuel cycle. Vol. 1. (B16, E23). 469023
- FAST FLUX TEST FACILITY:**
See **FFTF REACTOR**
- FAST MAGNETOACOUSTIC WAVES:**
frequency range
Fast magnetosonic wave spectrum in a transversely magnetized plasma cavity. (A14). [Data] 489120
- FAST NEUTRONS:**
attenuation
Attenuation of fast neutrons in ilmenite concretes. (C54). 487626
- Utilization of the O-16(n,p) reaction in monitoring 14 MeV neutrons and determining phantom attenuation characteristics. (D15, A31, E41). 461460
- capture**
Fast neutron capture and the microscopic isovector optical potential. (A33). 490054
- cross sections**
A new multigroup cross-section set based on ENDF/B library. (A34). 481559
- depth dose distributions**
Calculation of fast neutron depth-dose in the ICRU standard tissue ⁶²phantom and the derivation of neutron fluence-to-dose-index conversion factors. (D15). [Data] 491406
- Dose distribution in LET for 14 MeV neutrons in shallow depths of tissue. (C55). [Data] 494465
- Utilization of the O-16(n,p) reaction in monitoring 14 MeV neutrons and determining phantom attenuation characteristics. (D15, A31, E41). 461460
- dose equivalents**
Annual environmental monitoring report, January - December 1978. (B33, B32, C21; Stanford Linear Accelerator Center). 479727
- Neutron-photon multigroup cross sections for neutron energies less than or equal to 60 MeV. (A31, A32, D15). 460248
- dose-response relationships**
Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- field effect transistors**
Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- iron**
To the problem of fast-neutron spatial-angular distributions in iron. (A31). 486159
- isodose curves**
The fixed horizontal neutron therapy beam at Edinburgh: dosimetry and radiation protection. (C55, C54). [Data] 463450
- let**
Calculations of charged-particle recoils, slowing-down spectra, LET and event-size distributions for fast neutrons and comparisons with measurements. (C10). [Data] 463027
- Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- Possibilities of neutron-therapy by the U-103 cyclotron. (C63). 494645
- neutron dosimetry**
Results of Czechoslovak comparison of the measurements on a ²⁵²Cf neutron source. (C55, E41). 484696
- neutron fluence**
Monte Carlo calculations of radiation transport in the upper atmosphere. (A31). 460254

| | |
|--|--------|
| nuclear data collections | |
| A new multigroup cross-section set based on ENDF/B library. (A34). | 481559 |
| nuclear reaction yield | |
| Intense sources of fast neutrons. (E16). | 470370 |
| oxygen enhancement ratio | |
| Dosimetry and radiobiology of negative pions and heavy ions. (C63). | 491373 |
| personnel dosimetry | |
| Effect of etching solution normality on electrochemical etching of recoil particle tracks in polycarbonate. (E41, C55). [Data] | 477347 |
| personnel monitoring | |
| Energy dependence of Kodak NTA neutron personnel monitoring film. (E41). [Data] | 474097 |
| physical radiation effects | |
| The assessment of neutron radiation effect on reactor steels using fracture mechanics parameters. (B25). | 476386 |
| Irradiation effects in magnesium and aluminium alloys. (B25). | 484327 |
| Neutron irradiation-induced embrittlement in type 316 and other austenitic steels and alloys. (B25). | 484310 |
| plant breeding | |
| Effect of fast neutrons and gamma radiation on germination, pollen and ovule sterility and leaf variations in mung bean. (C13, C41). | 463083 |
| radiation streaming | |
| Two-dimensional shielding benchmark calculations by Discrete Ordinates and Monte Carlo codes. (1). (A31). | 481448 |
| rbe | |
| Dosimetry and radiobiology of negative pions and heavy ions. (C63). | 491373 |
| Irradiation of the microvasculature with fast neutrons. (C14; RBE for capillary damage following canine corneal irradiation). | 490951 |
| Possibilities of neutron-therapy by the U-103 cyclotron. (C63). | 494645 |
| Preliminary report of the M.D. Anderson Hospital/Texas A and M variable energy cyclotron fast-neutron therapy pilot study. (C15, C63; Comparison of effectiveness and complication rate for various irradiation techniques, tumor sites, and photon/neutron combinations). | 473021 |
| Radionuclide evaluation of pulmonary function following hemithorax irradiation of normal dogs with ⁶⁰ Co or fast neutrons. (C14, C62; ¹³³ Xe and ^{99m} Tc-Sn-phytate). | 469624 |
| Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction. (C14, C63, C15). | 487212 |
| Relative biological effectiveness of fast neutrons: suppression of immune capacity to Hymenolepis nana in mice. (C14). | 463132 |
| Response of Chinese hamster ovary cells to fast neutron radiotherapy beams. III. Variation in relative biological effectiveness with position in the cell cycle. (C11). | 460969 |
| Response of mouse intestine to 14 MeV neutrons. (C14). [Data] | 482057 |
| Test for dose-modifying factors. (C11; RBE of fast neutrons (survival of Chinese hamster cells)). | 461004 |
| recoils | |
| Calculations of charged-particle recoils, slowing-down spectra, LET and event-size distributions for fast neutrons and comparisons with measurements. (C10). [Data] | 463027 |
| scattering | |
| Skyshine problem from nuclear facilities, with special emphasis on neutron skyshine. (C55). | 463440 |
| FAST PROTOTYPE REACTOR JAPAN: | |
| <i>See MONJU REACTOR</i> | |
| FAST REACTORS: | |
| <i>See also more specific entries as listed in the INIS Thesaurus.</i> | |
| Contributions to the elaboration of a nuclear data set for fast reactors. (E35). | 461780 |
| Power reactors '78. (E30; Annual directory of data on the world's power reactors). | 466647 |
| boilers | |
| Corrosion resistance of ferritic steels in alkaline solutions. (B15, E35). | 460634 |
| breeding ratio | |
| Comparison of standard fast reactor calculations (Baker model). (E35, E21). [Data] | 488170 |
| burnup | |
| Determination of burn-up in fast reactors by simplified mass spectrometric ¹⁴⁸ Nd determination. (B11). | 468635 |
| control elements | |
| System for guiding the control rod. (E24). | 484932 |
| conversion ratio | |
| Comparison of calculations of standard fast reactors. (Using the Baker model). (E21). | 470505 |
| critical mass | |
| Shape factors of non-critical small fast assemblies and their use in ksub(ef) calculations. (E21). | 482663 |
| critical size | |
| Shape factors of non-critical small fast assemblies and their use in ksub(ef) calculations. (E21). | 482663 |
| criticality | |
| Comparison of calculations of standard fast reactors. (Using the Baker model). (E21). | 470505 |
| Comparison of standard fast reactor calculations (Baker model). (E35, E21). [Data] | 488170 |
| doppler coefficient | |
| Spectral fine-structure effects on material and Doppler reactivity worths. (E21; Fast reactors). | 461588 |
| eccs | |
| Emergency reactor cooling with a dissociating coolant. 2. (E21, E36). | 487971 |
| energy policy | |
| Fast reactors - today's best bet. (E35). | 477285 |
| environmental impacts | |
| Radiological impact of advanced power reactor systems on the environment. (C52). | 482215 |
| fission products | |
| Fission product group constants for fast reactors. (E21). | 482671 |
| fuel assemblies | |
| Fuel assembly for fast reactor. (E35; Patent). | 461767 |
| Nuclear fuel sub-assemblies. (E35). | 494985 |
| fuel cans | |
| Nuclear fuel element. (E35). | 482799 |
| fuel cycle | |
| Fast reactor fuel reprocessing development in the United States: an overview. (B16). | 486805 |
| fuel elements | |
| Analysis of fast reactor fuel depletion based on the separable kernel form of space dependent continuous slowing down theory. (E21). | 494893 |
| Burnup-dependent heat transfer from fuel to cladding in fast reactor fuel rods. (E21). | 487955 |
| U.S. technology for mechanized/automated fabrication of fast reactor fuel. (B23). | 460785 |
| fuel motion detection | |
| Fuel-motion unfolding based on point detector responses. (C52, E35). | 482227 |
| group constants | |
| Fission product group constants for fast reactors. (E21). | 482671 |
| mathematical models | |
| Study of the relative merits of various computational models of evaluating resonance J(THETA,β) function. (E21). | 482659 |
| neutron absorbers | |
| BICM-2 instrumented neutron absorber experiment. (E24, B25). | 480611 |
| neutron flux flattening | |
| Simultaneous usage of mixed oxides of Th, U and Pu for power profile stability with burn-up in large fast reactors. (E35). | 480693 |
| neutron transport | |
| Generalized treatment of heterogeneity effects for the shielding factor method. (E21). | 461596 |
| nuclear data collections | |
| Analysis of selected fast critical assemblies. (E35, E36). | 480704 |
| nuclear fuels | |
| Simultaneous usage of mixed oxides of Th, U and Pu for power profile stability with burn-up in large fast reactors. (E35). | 480693 |
| nuclear power | |
| The role and problems of the breeder. (E35). | 491971 |
| nuclear power plants | |
| Nuclear power plant. (E35). | 473966 |
| one-dimensional calculations | |
| Error evaluations for some calculational models of fast reactors. (E35). | 488150 |
| radioactive waste disposal | |
| Burning actinides in very hard spectrum reactors. (E52). | 466899 |
| reactivity | |
| Pulse measurement of reactivity in a single-zone fast reactor. (E36, E35). | 466742 |
| reactivity coefficients | |
| Analysis of selected fast critical assemblies. (E35, E36). | 480704 |
| reactivity worths | |
| Spectral fine-structure effects on material and Doppler reactivity worths. (E21; Fast reactors). | 461588 |
| reactor accidents | |
| How safe is the fast reactor. (E35). | 473955 |
| reactor control systems | |
| Reactor shut-down device. (E24). | 473836 |
| reactor core disruption | |
| Core disruptive accidents in fast reactors. (C52). | 482222 |
| reactor cores | |
| General features of the neutronics design code EQUICYCLE. (E21). | 461595 |
| reactor kinetics | |
| Fission yields for fast-neutron fission of uranium-238. (E21, A34). | 473762 |
| Measurements in Los Alamos benchmark criticals and the central reactivity discrepancy. (E21). | 470489 |
| Specifications for adjusted cross section and covariance libraries based upon CSEWG fast reactor and dosimetry benchmarks. (E21). | 491723 |
| Spectral fine-structure effects on material and Doppler reactivity worths. (E21; Fast reactors). | 461588 |
| Timing comparison of two-dimensional discrete-ordinates codes for criticality calculations. (E21; Fast reactors). | 466589 |
| Use of error files in uncertainty analysis and data adjustment. (E32, E35). | 466680 |
| reactor materials | |
| Comments about resonance parameters of Fe below 650 KeV: old evaluations, and recent experimental data. (E35, A31). [Data] | 495020 |
| Evaluation and adjustment of radiative capture cross sections of natural Mo and the stable Mo isotopes. (E35, A31). [Data] | 495000 |
| Evaluation and calculation of some average resonance parameters for structural materials. (E35, A31). | 495022 |
| Evaluation of natural molybdenum between 5 kev and 5 mev. (E35, A31). [Data] | 494989 |
| Evaluation of resonance data for Cr, Fe, Ni below 300 keV with special regard to Doppler effect calculation. (E35, A31). [Data] | |

- Evaluation of the capture cross section of natural Ti from 10^{-3} eV to 20.10^6 eV. (E35, A31). 494990
- Evaluation of the (n,p) cross sections of natural Ti and its isotopes from thresholds to 20 MeV. (E35, A31). [Data] 495025
- Experimental studies of (n, charged particle) cross sections, angular distributions and spectra with a magnetic quadrupole spectrometer. (E35, A31). [Data] 494982
- Importance and status of (n, α) - Cross sections for a reliable prediction of radiation damage in stainless steel. (E35, A31). 495001
- Integral experiments on structural materials carried out in the frame of CEA/CNEN cooperation. (E35, A31). 494999
- Needs of nuclear data of structural materials for fast reactors. (E35, A31). 494988
- Semi-integral structural material transmission experiment at the BRI reactor. (E35, A31). [Data] 495007
- Status report about some activation, hydrogen and helium producing cross sections of structural materials. (E35, A31). [Data] 495015
- Structural material data evaluation for JENDL-1. (E35, A31). [Data] 494977
- Tests of some FD 5 activation cross-sections by Zebra irradiations. (E35, A31). [Data] 495012
- reactor physics**
- Nuclear data and group constants for fast reactors. (E21). 461583
- reactor protection systems**
- Reactor shut-down device. (E24). 473836
- reactor safety**
- Can we afford to make the fast reactor safe. (E35, C62). 491966
- Core disruptive accidents in fast reactors. (C52). 482222
- How safe is the fast reactor. (E35). 473955
- Temperature fluctuations: an assessment of their use in the detection of fast reactor coolant blockages. (C52, E35). 461213
- specifications**
- Fast mixed spectrum reactor concept. (E21). 487962
- Fast-mixed spectrum reactor interim report initial feasibility study. (E21). 487957
- Status of the design concepts for a high fluence fast pulse reactor (HFFPR). (E36). 470789
- steam generators**
- Concept for fabrication of a fast reactor steam generator. (B21, E35). 460666
- Explosive welding of ferritic/ferritic and ferritic/austenitic steel joints. (B21, E35). 460668
- Manufacture of ferritic steel tubes for fast reactor steam generators. (B21, E35). 460660
- two-dimensional calculations**
- Error evaluations for some calculational models of fast reactors. (E35). 488150
- welded joints**
- The role of phase transformations in the development of residual stresses during the welding of some fast reactor steels. (B22, E35). 460722
- FASTENERS:**
- materials testing**
- Investigations on bolts for reactor pressure vessels and connections of core internals. (E22). 466606
- performance testing**
- Evaluation of two styles of slotted, flat-head screws. (E13; U-6% Nb alloys). 476921
- pressure vessels**
- Steels for screws and nuts with larger dimensions for application as components in the primary circuit of nuclear power generating plants at moderately increased temperatures. (E22, B21, B22). 477136
- purification**
- Device for purifying courses of threads. (E22, E13, E15). 461630
- FASTENING:**
- supports**
- Support for the sealing cover of the depressurization container of an atomic reactor. (E22). 480579
- FASTING:**
- biological effects**
- Influence of oxidation state on the absorption of plutonium from the gastrointestinal tract. (C21; ^{239}Pu , rats, guinea pigs, ^{238}Pu). 473096
- FATIGUE:**
- bolted joints**
- Fatigue behaviour of bolted connections. (E17). 470450
- prediction equations**
- Change of fatigue parameters with temperature. (B22). 481830
- stainless steel-321**
- Crack propagation rates of SUS 321 stainless steel under high-temperature, low-cycle fatigue conditions. (B22). [Data] 481853
- temperature dependence**
- Change of fatigue parameters with temperature. (B22). 481830
- FATS:**
- intestinal absorption**
- Radio-opaque pellets as faecal markers for faecal fat estimation in malabsorption. (C62). 491353
- radurization**
- The effect of ionizing radiation on the fatty acid composition of natural fats and on lipid peroxide formation. (C11). [Data] 476506
- FATTY ACIDS:**
- See CARBOXYLIC ACIDS
- FAULT TREE ANALYSIS:**
- COMCAN II-A: a computer program for automated common cause failure analysis. (C52, E35; LMFBR). 487563
- Modular approach to fault tree analysis. (C52). 487543
- Synthesis of fault trees. (C52). 480095
- Use of decision tables in the systematic construction of fault trees. (C52). 480168
- algorithms**
- Decision table development and application to the construction of fault trees. (C52). 461286
- computer codes**
- Computer-aided Fault Tree Analysis. (C52; FTAP, in FORTRAN for CDC 6600/7600 and IBM 360/370 series computers). 466340
- construction**
- Discussion of the value of information gained by safety analysis methods. (C52). 473277
- reactor safety**
- Fault tree analysis with multistate components. (C52, F51). 461184
- s codes**
- SALP-3: A computer program for fault-tree analysis. Description and how-to-use. (Sensitivity analysis by list processing). (F51). 492347
- FAULT TREE SYSTEMS:**
- See FAULT TREE ANALYSIS
- FAULTS (GEOLOGIC):**
- See GEOLOGIC FAULTS
- FBR TYPE REACTORS:**
- See also BN-350 REACTOR; BOR-60 REACTOR; CLINCH RIVER BREEDER REACTOR; DFR REACTOR; EBR-2 REACTOR; GCFR REACTOR; GCFR TYPE REACTORS; JOYO REACTOR; KALPAKKAM LMFBR REACTOR; LMFBR TYPE REACTORS; MONJU REACTOR; PFR REACTOR; PHENIX REACTOR; PLBR REACTOR; RAPSDIE REACTOR; SNR REACTOR; SNR-2 REACTOR; SUPER PHENIX REACTOR; ZEBRA REACTOR
- Fast reactors. (E35). 491986
- auxiliary water systems**
- Common cause failure experience for reliability analysis and design guidelines in large nuclear breeder plants. (C52, E35). 487470
- breeding blankets**
- Integral measurements in a simulated fast breeder reactor blanket. (E35). 491984
- chromium-molybdenum steels**
- Metallurgical aspects of the weldability of Cr-Mo stabilised ferritic steels. (B21, E35). 460658
- comparative evaluations**
- Fusion reactor or fast breeder. (A14, E35). 475013
- cooling systems**
- Control device for liquid metal temperature. (E24). 470597
- courts**
- Constitutionality of the Atomic Energy Act. (F22, E35). 492296
- The decision of the Federal Constitutional Court concerning the licensing of fast breeder reactors. (F22, E35). 471123
- energy policy**
- Chances and risks of new technologies. (E35, F61). 495003
- The fast breeder. (E35, C52). 482795
- environment**
- Fast breeders and environment. (C52, E35). 466303
- federal republic of germany**
- The Fast Breeder project. (E35). 461765
- Success and problems of fast breeder development. (E35). 484983
- fission products**
- Sensibility analysis of the effect of various key parameters on fission product concentration (Mass Number 133 to 138). (B11). 490315
- [Data]
- Sensibility analysis of the effect of various key parameters on fission product concentration mass number 127 to 132 and Xe - 133 m). (B11). [Data] 490314
- forecasting**
- The role of the fast breeder. (E35). 470769
- Strategical considerations on the future use of fast breeder reactors. (E35, C52, F11). 491999
- fuel assemblies**
- Fast reactor. (E35). 477280
- Laying the bogey of sodium boiling in FBR fuel clusters. (E35). 473951
- Nuclear fuel assembly. (E35). 477282
- Nuclear fuel assembly. (E35). 477286
- Shroud for a fuel assembly. (E35). 470763
- fuel cans**
- Method of fabricating the inner surface of a fuel cladding tube. (E35). 491988
- Swelling and creep of cladding and structural materials. (E35). 461755
- fuel cycle**
- International symbiosis: the role of thorium and the breeders. (F12). 488415
- Preparing to close the fast reactor fuel cycle. (B16). 490528
- fuel element clusters**
- Thermo- and fluid-dynamic studies on fuel rod and absorber bundles. (E11, E35). 461491
- fuel element failure**
- The melting of finite steel slabs in flowing nuclear reactor fuel. (C52). 480054
- fuel elements**
- Nuclear reactor. (E35). 482796
- fuel pellets**
- Analysis of crack patterns in fast reactor fuel pellets. (E35). 470749
- fuel pins**
- The development of oxide fuel rods and subassemblies. (E35). 461773
- Fuel assembly in fbr type reactor. (E35). 473973
- Fuel assembly of fbr type reactor. (E35). 473974
- fuel rods**
- Fuel element for a nuclear reactor. (E35). 470759
- Influence of fuel porosity and fuel rod parameter on the radial

| | | | |
|--|--------|--|--------|
| uranium-plutonium redistribution in reactor fuel rods. (E35, E23). | 484980 | thorium cycle | |
| fuel-cladding interactions | | Denatured thorium cycle: an overview. (F12). | 471120 |
| Mechanical and chemical interaction between fuel and cladding. (E35). | 461753 | International symbiosis: the role of thorium and the breeders. (F12). | 488415 |
| gas cooled reactors | | united kingdom | |
| R + D work on gas-cooled breeder development. (E35). | 461751 | Case study two. The fast breeder reactor. (E35). | 463665 |
| heat exchangers | | The energy gap and the fast reactor. (E35). | 461741 |
| New welding method for tubes and tube plates of heat exchangers for FBRs. (E35). | 482804 | USA | |
| helium | | Strategical considerations on the future use of fast breeder reactors. (E35, C52, F11). | 491999 |
| R + D work on gas-cooled breeder development. (E35). | 461751 | FCA REACTOR: | |
| international cooperation | | heterogeneous effects | |
| How Europe is cooperating on FBRs. (E35). | 470745 | Experiment on heterogeneity effect in FCA assembly V-1. (E21). | 482666 |
| International progress with liquid-metal fast reactors. (E35). | 492002 | reactivity | |
| iterative methods | | FCA assembly V-1 critical experiment. (E21). [Data] | 491707 |
| Choice of an optimal variant of the alternating direction method for calculation of two-dimensional reactor models. (E21). | 487951 | FCC LATTICES: | |
| lawsuits | | diffusion | |
| Decision by the Federal Constitutional Court. (F22). | 482940 | A modified derivation of the correlation factor in tracer diffusion via vacancy mechanism. (A13). | 464183 |
| manuals | | Present status of proton diffusion studies. (A13). | 474874 |
| A glossary of terms for fast reactors. (E35). | 495032 | hydrogen | |
| melt-down | | Present status of proton diffusion studies. (A13). | 474874 |
| Experimental measurement of local heat flux from volume-heated boiling pools to inclined boundaries. (C52, E35). | 491146 | FECEs: | |
| one-group theory | | labelling | |
| Modified one-group calculation method for three-dimensional analysis of fast breeder reactors. (E21). [Data] | 482672 | Radio-opaque pellets as faecal markers for faecal fat estimation in malabsorption. (C62). | 491353 |
| pipes | | radioactivity | |
| International piping benchmarks: use of the simplified code PACE 2. (E35, E22). | 494983 | ⁹⁰ Sr and ¹³⁷ Cs in coyote scats from the Hanford Reservation. (C21). [Data] | 466226 |
| planning | | radiometric analysis | |
| Nuclear fast reactors - the present position in Great Britain. (E35). | 482790 | Two ²³⁸ Pu inhalation incidents. (C21, C54). | 494331 |
| Nuclear research in the Federal Republic of Germany. (F61, E33, E35). | 462060 | FEDAL: | |
| Nuclear symbiosis. Why, when and how. (E35). | 463687 | See <i>FAILED ELEMENT DETECTION</i> | |
| power demand | | FEDERAL REPUBLIC OF GERMANY: | |
| Fast breeders - their technology and their role in covering the long-term energy demand. (E35, F11). | 482797 | bilateral agreements | |
| The role of the fast breeder. (E35). | 470769 | Agreement between the Swiss Federal Council and the Government of the Federal Republic of Germany on Radiation Protection in Case of Emergency. (F23). | 482945 |
| power distribution | | fabrication | |
| A contribution to the method of fast reactor thermal output calculation. (E21). | 477104 | Quality assurance as a means of nuclear technology transfer. (E22, C53, F61). | 466602 |
| Effective one-group coarse-mesh method for calculating three-dimensional power distribution in fast reactors. (A31). | 475693 | fuel cycle | |
| primary coolant circuits | | Fuel cycle and quality control. (F12). | 485213 |
| Coolant feeding system for fbr type reactors. (E24). | 473830 | fuel fabrication plants | |
| Device to control the coolant flow in fuel or fertile elements of nuclear reactors. (E35). | 473995 | An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). | 473207 |
| proliferation | | fuel reprocessing plants | |
| Energy supply and non-proliferation policy aspects of fast breeders. (F10, E35). | 461988 | An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). | 473207 |
| public opinion | | hydrology | |
| Nuclear power: the widening debate. (C52). | 476677 | Argon-39, carbon-14 and krypton-85 measurements in groundwater samples. (B32). [Data] | 462994 |
| pumps | | iso | |
| Conditioning of liquid sodium pumps by the use of acoustic methods. (E35). | 473975 | The role of nuclear standards in nuclear technology transfer. (F61, F27, C53). | 471192 |
| reactivity | | lmfbr type reactors | |
| Few-group constants for the calculation of ksub(ef) and Δ(1/ksub(ef)) of fast breeder reactors. (E21). | 477108 | West German perspective on the need for the plutonium-fueled LMFBR. (E35, F12). | 488143 |
| reactor core restraints | | nuclear materials management | |
| Incore supporting device for nuclear fuel assembly. (E35). | 470767 | Review of physical protection program in the Federal Republic of Germany. (F41, E15; Transport by helicopters). | 488462 |
| reactor cores | | nuclear power | |
| Heterogeneous cores of fast breeder reactors. (E35). [Data] | 480694 | Nuclear power in Germany. (E30). | 477194 |
| Mechanical and thermohydraulic core engineering of large breeders. (E35, E21). | 461770 | Public acceptance of nuclear power generation in West Germany. (C52). | 476711 |
| reactor safety | | nuclear power plants | |
| Laying the bogey of sodium boiling in FBR fuel clusters. (E35). | 473951 | Nuclear power in Germany. (E30). | 477194 |
| Local cooling perturbations in a fast breeder core and their detectability. (E35). | 461783 | Prevention of quality costs: Part I. Reactor QA system: Part II. (F11, E22; German Federal Republic). | 474296 |
| The melting of finite steel slabs in flowing nuclear reactor fuel. (C52). | 480054 | pebble bed reactors | |
| National and international cooperation of the PSB. (E35). | 461763 | Gas Reactor International Cooperative Program. Interim report. Safety and licensing evaluation of German Pebble Bed Reactor concepts. (F22, E33). | 492301 |
| reactor technology | | radioactive waste facilities | |
| Nuclear research in the Federal Republic of Germany. (F61, E33, E35). | 462060 | An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). | 473207 |
| regulating rods | | radioactive wastes | |
| Nuclear reactor control rod. (E24, E35). | 470580 | Risk analysis of radioactive waste management systems in Germany. (E50). | 471036 |
| research programs | | FEED MATERIALS PLANTS: | |
| Current developments in fast reactor physics. (E21, E35). | 480575 | (Plants for the production of refined uranium or plutonium metal or their pure compounds in a form suitable for use in nuclear reactor fuel elements or as feed for uranium enrichment processes.) | |
| The Fast Breeder project. (E35). | 461765 | See also <i>FEED MATERIALS PRODUCTION CENT</i> | |
| International progress with liquid-metal fast reactors. (E35). | 492002 | An occupational medical program for a 'model' uranium mill. (C52, C55). | 476699 |
| National and international cooperation of the PSB. (E35). | 461763 | contamination | |
| The objectives of the Fast Breeder project. (E35). | 461778 | Description of radiological problems at inactive uranium mill sites and formerly utilized MED/AEC sites. (B16, C54). | 472578 |
| reviews | | economics | |
| Current developments in fast reactor physics. (E21, E35). | 480575 | U ₃ O ₈ production cost analysis study. Sandstone deposit mine model EA-730, Volume 1. (B31, B16). | 469474 |
| safety analysis | | U ₃ O ₈ production cost analysis study. (B31, B16; CASHFLOW). | 469475 |
| The usage of equation of state data for fuel and sodium in the analysis of hypothetical fast reactor accidents. (C52). | 473216 | environmental impact statement | |
| shrouds | | Draft environmental statement related to the Union Carbide Corporation, Gas Hills Uranium Project (Natrona County, Wyoming). (B16). | 462823 |
| Fuel assembly. (E35). | 477298 | Draft environmental statement related to the Energy Fuels Nuclear, | |
| spent fuel elements | | | |
| Prediction of thermal capability for a proposed LMFBR spent fuel shipping cask. (E15, E35). | 473651 | | |
| temperature monitoring | | | |
| Accurate measurement of lattice parameters using a Bragg-Brentano X-ray diffractometer applied to neutron irradiated silicon carbide. (E35). | 491960 | | |

- Inc., White Mesa Uranium Project (San Juan County, Utah). (B16, C52, C54). 469030
- Final environmental statement related to the United Nuclear Corporation, Morton Ranch, Wyoming Uranium Mill (Converse County, Wyoming). (C50, C52, F42). 473189
- Final environmental statement related to the Minerals Exploration Company, Sweetwater Uranium Project (Sweetwater County, Wyoming). Docket No. 40-8584. (B16, C50, C52). [Data] 462824
- Final environmental statement related to the Atlas Minerals Division, Atlas Corporation, Atlas Uranium Mill (Grand County, Utah). (B16, C50, C52). [Data] 469029
- Homestake Mining Company Pitch Project. Final environmental statement. (C52, C50, B31, B16). 487482
- environmental impacts**
- Environmental considerations of uranium mining and milling. (C52). 476712
- inspection**
- Licensed fuel facility status report. Status summary report. (F42, E50, C52). [Data] 466952
- licensing**
- Current uranium mill licensing issues. (B16, E52). 465527
- ore processing**
- Field and modeling study of windblown particles from a uranium mill tailings pile. Interim report. (C52, B33). 480139
- Update of NRC uranium mill licensing activities. (B16, C52, E52). 476216
- Uranium mill tailings storage, use, and disposal problems. (B16, C54, E52). 465516
- radiation hazards**
- Radiological assessment methodology for uranium mills. (B16, C54, E50). 472600
- Radiological impact of thorium mining and milling. (C54, B16, B31). 487631
- radiation monitoring**
- Miscellaneous data and information collected during radiation surveys at the former Monument Uranium Mill site (1974-1975). Technical note. (C52, B16, B33, B31, B32). 480071
- radioactive effluents**
- Licensed fuel facility status report. Status summary report. (F42, E50, C52). [Data] 466952
- radioactive waste disposal**
- Disposal and reclamation of southwestern coal and uranium wastes. (B31, B16, E52). 494217
- Formerly utilized MED/AEC Sites Remedial Action Program. Radiological survey of the Pennsylvania Railroad Landfill Site, Burrell Township, Pennsylvania. Final Report. (E50, B16; Waste from U processing plant). [Data] 466869
- Uranium mill tailings: the problem of disposal with a special look at New Mexico. (C52, B31, E52). 494442
- radioactive wastes**
- Radiological impact of uranium tailings and alternatives for their management. (C54, E50). 494459
- Thorium residuals in West Chicago, Illinois. (B31, B32, C52, B16). 469489
- waste management**
- Update of NRC uranium mill licensing activities. (B16, C52, E52). 476216
- FEED MATERIALS PRODUCTION CENT:**
- Techniques used to produce tonnage quantities of uranium alloys at the DOE's feed materials production center. (B16). 479338
- air pollution**
- Feed Materials Production Center environmental monitoring annual report for 1978. (C52, B33, B32, B31). 487420
- monitoring**
- Feed Materials Production Center environmental monitoring annual report for 1978. (C52, B33, B32, B31). 487420
- FEEDBACK:**
- plasma**
- Remarks on the stabilization of the systems a single unstable leading mode. (A14). 467527
- FEEDWATER:**
- cleaning**
- The treatment of river water by reverse osmosis. (B12, E32, B15). 465387
- control equipment**
- Feedwater sparger for reactor. (E22). 470509
- heating**
- Reactor feedwater system. (E31). 482740
- Steam generator with a tube bundle arranged in a vertical pressure vessel. (E32, E22). 461711
- joints**
- Arrangement for the coupling of tubes in reactor pressure vessels, especially for the tubes of the feed-water distributor. (E22). 477126
- organic compounds**
- Removal of organic matter from river water during feedwater treatment. (B12, E32, B15). 465321
- oxygen**
- Balls keep water oxygen free. (E33). 473916
- pumps**
- Reactor recirculation pump. (E31). 477206
- reactor control systems**
- Feed water control system. (E24). 466641
- separation processes**
- Removal of organic matter from river water during feedwater treatment. (B12, E32, B15). 465321
- stability**
- Feedwater sparger. (E31). 473865
- thermal power plants**
- The influence of mass transfer, velocity and mechanical stress on the growth of coating in hot water. (B12, E32, B15). 465320
- water chemistry**
- Criteria of water for nuclear power. (B24). 476380
- water pollution**
- Feed and discharge water treatment for thermal and nuclear power plants. (E32). 477251
- FEEDWATER HEATERS:**
- steam separators**
- Vertical feedwater heater with steam moisture separator. (E22). 466617
- FEES:**
- See *CHARGES*
- FEET:**
- biomedical radiography**
- Intraarterial tolazoline in angiography of the foot. (C61). 480239
- Talofibular compartment of the ankle joint after recent ankle sprain. (C61). 480236
- blood flow**
- Intraarterial tolazoline in angiography of the foot. (C61). 480239
- FEINBERG-PAIS THEORY:**
- scattering lengths**
- A new approach to peratization technique. (A21). 462559
- FELDSPARS:**
- adsorption**
- Sorption of americium on major rock-forming minerals. (C52, E52, B31). 480011
- Sorption of americium on major rock-forming minerals. (C52, E52, B31). 480011
- FEMALE GENITALS:**
- See also *OVARIES; UTERUS*
- biological radiation effects**
- Carcinoma of the vagina. (C15; Complications following whole-pelvis γ irradiation and radium implant therapy). 469709
- Electron microscopic observations of the stroma in carcinoma of the uterine cervix. (C15). 482068
- Long term follow-up of combination chemotherapy-radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
- Radiosurgical treatment of endometrial carcinoma: the value of simple surgery versus extended surgery. (C15, C63, C64; Comparison of incidence of radiotherapeutic complications in relation to simple or extended surgery). 473018
- Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 473029
- carcinomas**
- Radiation treatment policy for carcinoma vagina. (C63). 484766
- delayed radiation effects**
- Limitations of adjunctive surgery in carcinoma of the cervix. (C15, C63, C64). 473022
- Radiation management of carcinoma of the cervical stump. (C15, C63, C64; Complications following external and internal radiotherapy). 487269
- early radiation effects**
- Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- radiation injuries**
- Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019
- Preliminary report of the M.D. Anderson Hospital/Texas A and M variable energy cyclotron fast-neutron therapy pilot study. (C15, C63; Comparison of effectiveness and complication rate for various irradiation techniques, tumor sites, and photon/neutron combinations). 473021
- scintiscanning**
- Demonstration of the infiltration of the carcinoma of uterine cervix by using ^{111}In -bleomycin scintigraphy. (C62). 473445
- FEMALES:**
- See also *WOMEN*
- FEMUR:**
- calcium**
- Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of /sup 99m/Tc-pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calcification at these sites). 470174
- metastases**
- Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of /sup 99m/Tc-pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calafication at these sites). 470174
- radioactivity**
- Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
- radionuclide kinetics**
- [^{125}I] 7-iodo-6-demethyl-6-deoxytetracycline HCl: its use in the study of bone mineralization. (C62, B13). 484721
- FERMENTATION ALCOHOL:**
- See *ETHANOL*
- FERMI BETA THEORY:**
- See *FERMI INTERACTIONS*
- FERMI CONSTANTS:**
- See *FERMI INTERACTIONS*
- FERMI FLUID:**
- See *FERMI GAS*

FERMI GAS:

| | |
|--|--------|
| gravitational interactions | |
| The pressure of fermions with gravitational interaction. (A11). | 474488 |
| jastrow theory | |
| Jastrow correlations and the hard sphere Fermi gas. (A33). | 472195 |
| neutrinos | |
| Separation processes in the primordial neutrino-antineutrino gas. (A11, A21). | 474458 |
| response functions | |
| 4k/sub F/ response function in the Tomonaga model. (A13). | 489006 |
| superfluidity | |
| Microscopic theory of superfluid Fermi systems. I. Binary expansion. (A11). | 467115 |
| Microscopic theory of superfluid Fermi systems. II. Application to low density hard sphere system. (A11). | 467116 |
| thermal conductivity | |
| Transport coefficients of normal liquid ³ He at very low temperatures. (A17). | 464726 |
| tomonaga approximation | |
| Three-dimensional analogue of the Tomonaga model for the system of interacting fermi-particles. (A17). | 489673 |
| viscosity | |
| Transport coefficients of normal liquid ³ He at very low temperatures. (A17). | 464726 |
| wave functions | |
| Distribution of particles in Fermi systems. (A33). [Data] | 464959 |
| FERMI GAS MODEL: | |
| Nuclear Fermidynamics and T.D-S-H.F. (A33; Nuclear structure, heavy ion reactions). | 478627 |
| photoproduction | |
| Photopion production in the Fermi-gas model. (A33). | 465024 |
| symmetry | |
| Symmetries and statistical behavior in fermion systems. (A33). | 483749 |
| tensor forces | |
| The role of tensor forces in Fermi liquid theory. (A33). | 483724 |
| FERMI INTERACTIONS: | |
| Equivalence of the four-Fermi theory with the sigma-model. (A11). | 459704 |
| Podd effects in heavy atoms and a sign of the weak interaction constant. (A21). | 493045 |
| FERMI LEVEL: | |
| two-dimensional calculations | |
| Two-dimensional physics. (A17). | 475479 |
| FERMI LIQUID: | |
| See FERMILAB | |
| FERMI PSEUDOPOTENTIAL: | |
| See FERMILAB INTERACTIONS | |
| FERMI STATISTICS: | |
| correlation functions | |
| Optimal correlation function for Fermi HNC equations. (A33). | 472173 |
| nuclear matter | |
| A numerical study of the Fermi hypernetted chain method. (A33). | 472169 |
| FERMI SURFACE: | |
| See FERMILAB | |
| FERMI-DIRAC GAS: | |
| See FERMILAB | |
| FERMI-DIRAC STATISTICS: | |
| See FERMILAB | |
| FERMI-THOMAS MODEL: | |
| See THOMAS-FERMI MODEL | |
| FERMI-WEIZSAECKER FORMULA: | |
| See FERMILAB INTERACTIONS | |
| FERMILAB ACCELERATOR: | |
| (Facility at Fermi National Accelerator Laboratory, Batavia, Illinois, includes main synchrotron, booster synchrotron, and linac.) | |
| Logistics and cost estimate for adapting Main Ring and Energy Doubler/Saver to the transposed geometry. (E16). | 473733 |
| Physics at collider energies. (E16, A22). | 473702 |
| accelerator facilities | |
| By pass and inner ring at Fermilab. (E16). | 473735 |
| Experimental hall design considerations. (E16, A22). | 473669 |
| Interactions between the colliding beams program and the fixed target experimentation. (E16). | 473683 |
| Long-lived particle spectrometer for the Fermilab collider. (E16). | 473671 |
| Muon backgrounds in experimental halls. (E16). | 473679 |
| Radiation problems with assembly halls adjacent to experimental areas (Doubler Collider case). (E16). | 473722 |
| antiproton beams | |
| Accommodating stochastic cooling at Fermilab. (E16). | 480483 |
| Antiproton production at rest in the center of mass. (E16). | 473685 |
| Expected anti-proton flux in the anti pp collider. (E16). | 473681 |
| Luminosity in anti pp collisions: a critique. (E16). | 473718 |
| background radiation | |
| Background at B0 straight section. (E16). | 473713 |
| Background rates around the Main Ring during storage. (E16). | 473712 |
| beam bunching | |
| Bunch lengthening in the Fermilab Main Ring. (E16). | 473697 |
| Estimate of bunch lengthening and widening in the Main Ring and in the Energy Doubler. (E16). | 473720 |
| Observations of bunch size in the Main Ring. (E16). | 473690 |
| beam dynamics | |
| B ⁺ Booster (better brighter beam by boosting the booster). (E16; Booster ring optics at Fermilab). | 473660 |
| Collecting anti protons in the Fermilab Booster and very high | |

| | |
|--|--------|
| energy proton-anti proton interactions. Appendix C. (E16). | 480442 |
| Electron space charge and solenoidal field effects on the proton cooling ring. (E16). | 473699 |
| Expected anti-proton flux in the anti pp collider. (E16). | 473681 |
| Note on simultaneous bilateral acceleration of protons and anti-protons in the Main Ring and/or Doubler/Saver. (E16). | 473695 |
| Tune depression due to space charge forces during stacking in the Energy Doubler. (E16). | 473721 |
| beam extraction | |
| Antiproton fixed target physics in the Main Ring/Energy Doubler tunnel. (E16). | 473659 |
| Possibilities of accelerating and extracting antiprotons for use in the external experimental areas. (E16). | 473682 |
| beam injection | |
| Antiproton momentum compactor-debuncher linac. (E16). | 480467 |
| Use of the cooling ring as a pre-booster for higher luminosity collider applications. (E16). | 473719 |
| beam luminosity | |
| Comparison of anti pp and pp luminosities at Fermilab. (E16). | 473688 |
| Luminosity in anti pp collisions: a critique. (E16). | 473718 |
| beam optics | |
| Anti p-p beam separator. (E16). | 473726 |
| Background rates around the Main Ring during storage. (E16). | 473712 |
| Beam parameters for the Fermilab Collider. (E16). | 473687 |
| Beam size blow-up and current loss in the Fermilab Main Ring during storage. (E16). | 473698 |
| Effect of twisted dipoles on orbit. (E16). | 473705 |
| Low- β insertion for proton-antiproton collisions in the Fermilab Doubler. (E16). | 473700 |
| Mismatch of the low β insertion of the Fermilab Main Ring for off-momentum orbits in absence of sextupoles. (E16). | 473666 |
| Tune spread due to current ripple and momentum spread in the Main Ring. (E16). | 473691 |
| beam scanners | |
| Check of calibration of the horizontal IBS. (E16). | 473684 |
| beam stacking | |
| Prospects for stochastic cooling and anti pp colliding beams. (E16). | 491657 |
| Stochastic cooling of antiprotons in the little cooling ring. (E16). | 494841 |
| beam transport | |
| Possibilities of accelerating and extracting antiprotons for use in the external experimental areas. (E16). | 473682 |
| bubble chambers | |
| Fermilab: energy doubler for proton beam; superconducting magnets, bubble chamber. (E16). | 480419 |
| calorimeters | |
| Preliminary test results of a finely segmented iron-liquid argon hadron calorimeter. (E16, E41). | 494849 |
| colliding beams | |
| Anti p-p beam separator. (E16). | 473726 |
| Antiproton fixed target physics in the Main Ring/Energy Doubler tunnel. (E16). | 473659 |
| Aperture requirements for beam-beam interaction at unequal energies. (E16). | 473707 |
| Collecting anti protons in the Fermilab Booster and very high energy proton-anti proton interactions. Appendix C. (E16). | 480442 |
| Colliding beams at Fermilab. (E16). | 480527 |
| Colliding beams: limitations/instabilities. (E16). | 494846 |
| Colliding drifters. (E16; Optimum geometry for Main Ring on Doubler collisions). | 473658 |
| Crossing geometry and the location of colliding beam areas. (E16). | 473668 |
| Crossing geometry for Main Ring on Doubler collisions. (E16). | 473686 |
| Main Ring/Doubler low-beta insertions. (E16). | 473703 |
| Reflections of a part-time physicist. (E16, A22). | 473655 |
| Summary report of the working group on colliding beams, Batavia, Illinois, 15-21 October 1978. (E16). | 494757 |
| Super magnets for interaction regions. (E16). | 473675 |
| construction | |
| pp collider construction scenario. (E16). | 473670 |
| electron cooling | |
| High-energy electron cooling. (E16). | 480503 |
| Tevatron used as p-anti p collider. (E16). | 494864 |
| electron-proton interactions | |
| Electron-proton collision at Fermilab. (E16, A22). | 473656 |
| Electron-proton colliding beam scheme for Fermilab. (E16, A22). | 473696 |
| Synchrotron radiation loss in a kissing ep geometry. (E16). | 473678 |
| environment | |
| Environmental monitoring report for calendar year 1978. (B32, C15, C21). [Data] | 487129 |
| high energy physics | |
| High-energy physics at Fermilab. (A21, A22; Fermilab: Fermi National Accelerator Laboratory). | 462577 |
| radiation detectors | |
| Detector for x-hall. (E16). | 473708 |
| Experiment to search for fractionally charged quarks in Main Ring-Doubler collisions. (E16, A22). | 473716 |
| Report of the detector group. (E16). | 473665 |
| Searches for magnetic monopoles and fractionally charged quarks as an auxiliary function for a large detector at the collider. (E16, A22). | 473677 |
| radiation protection | |
| Radiation problems with assembly halls adjacent to experimental areas (Doubler Collider case). (E16). | 473722 |

- radioactive wastes**
Environmental monitoring report for calendar year 1978. (B32, C15, C21). [Data] 487129
- solenoids**
Compensation of solenoidal field. (E16). 473727
- specifications**
By pass and inner ring at Fermilab. (E16). 473735
- storage rings**
Effects of multiple scattering in the Main Ring during storage. (E16). 473732
End effects of the cooling section on the proton (antiproton) beam. (E16). 473667
Main Ring storage studies. (E16). 473693
Present status of the Main Ring as a storage device. (E16). 473730
Pressure bump in cooling section. (E16). 473680
Proton cooling ring lattice design including electron beam tune shift. (E16). 473704
Recommendations for further Main-Ring storage studies. (E16). 473731
- superconducting magnets**
Dual superconducting squeezer magnets. (E16). 473706
Fermilab: energy doubler for proton beam; superconducting magnets, bubble chamber. (E16). 480419
Super magnets for interaction regions. (E16). 473675
- vacuum systems**
Characteristics of the vacuum in the Main Ring as related to beam storage. (E16). 473692
Synchrotron radiation effects on the Main Ring vacuum. (E16). 473711
- FERMIONS:**
See also more specific entries as listed in the INIS Thesaurus.
- bound state**
Application of the N-quantum approximation method to bound state problems. (A21). 468129
Deep-inelastic structure functions for bound states in the ladder approximation. (A21, A11). 468124
Investigations in hadron physics: bound state models for fermions; radiative corrections to pion-pion scattering. (A21). 486092
- confinement**
Screening versus confinement. (A21). [Data] 481413
- duality**
Bosonized fermions in three dimensions. (A11). 477648
- gauge invariance**
Path-integral measure for gauge-invariant fermion theories. (A11). 485307
- gravitational fields**
Fermion nonminimal gravitational coupling and the solar-neutrino problem. (A15, E41, A21). 489562
- gravitational interactions**
Thermodynamics of gravitating fermions. I. (A11, A15). 488600
Thermodynamics of gravitating fermions. II. (A11, A15). 488601
- hamiltonians**
Diagonalisation of the quadratic fermion Hamiltonian with a linear part. (A11). 462070
Three dimensional form of covariant effective hamiltonian of two fermion interaction. (A21). 493083
- lagrangian function**
Jordan algebra and the classical systems described by degenerated and non-degenerated lagrangians. (A11). 471288
- many-body problem**
Generalized Fermi sea for plane-wave Hartree-Fock theory: One dimensional model calculation. (A33). 475714
- mass**
Mass without scalars. (A21, A11). 489767
Vacuum instability and new constraints on fermion masses. (A21). 478457
- obe model**
Three dimensional form of covariant effective hamiltonian of two fermion interaction. (A21). 493083
- pair production**
Equal-time commutators in continuous dimensions. (A11). 488605
Improved Weizsaecker-Williams method. (A21). 464838
Renormalization of the gravitational constant and fermion production by a nonstationary gravitational field. (A15). 467869
- pairing interactions**
Superfluid as a source of all interactions. (A11). 467127
- particle interactions**
Fermions coupled to instantons in two dimensions. (A21). 489794
Spin dependence of fermion-fermion scattering in the eikonal limit. (A21). 489835
- particle models**
Spontaneous chiral symmetry breaking and the 1/N expansion in two dimensions in an exactly soluble model. (A21). 486100
- position operators**
Localized states for relativistic systems. (A21; Poincare group). 478430
- propagator**
Propagation of fermions in the $A_0 = 0$ gauge. (A11). 488581
Propagation of fermions in $A_0 = 0$ gauge. (A11). 488580
- quantum chromodynamics**
Primitive particle model. (A21, A11). 468113
- regge trajectories**
Investigations in hadron physics: bound state models for fermions; radiative corrections to pion-pion scattering. (A21). 486092
- scalar fields**
Mass without scalars. (A21, A11). 489767
- scattering amplitudes**
Comment on radiative corrections in the large-Higgs-mass limit. (A21, A11). 489801
- thirring model**
Thermodynamics of gravitating fermions. II. (A11, A15). 488601
- uncertainty principle**
Uncertainty relation for N fermions. (A11). 467054
- vacuum states**
Confinement in (1+1) dimensions and fermions. (A21). 489742
- yukawa potential**
Asymptotic estimates in perturbation theory with fermions. (A33). 468376
- FERMIIUM:**
fluorescence
Precision measurement of K-shell fluorescence yields in actinide elements. (A12). [Data] 467150
- FERMIIUM COMPOUNDS:**
reduction
Electrochemical reduction by radiopolarography of some transplutonium aqueous ions. (B13). [Data] 460568
- FERMIIUM ISOTOPES:**
See also FERMIIUM 256; FERMIIUM 257
- spontaneous fission**
Fission properties of very heavy actinides. (A34; Review, fragment shell effects, half-lives). 486393
- FERMIIUM 256:**
spontaneous fission
Dependence of neutron yield on fragment mass for several low-energy fissioning systems. (A33). 486229
- FERMIIUM 257:**
isotope production
Production of einsteinium and fermium in reactors. (D13). 466444
- FERRIC COMPOUNDS:**
See IRON COMPOUNDS
- FERRICYANIDES:**
chemical radiation effects
Radiation chemical transformations of colloid ferri-ferrocyanides. (B14). 479220
- electronic structure**
Theory of molecular subclusters. (A13). 471582
- moessbauer effect**
Effects of temperature and pressure in calcium ferricyanide by Moessbauer techniques. (A13). 471450
- solid clusters**
Theory of molecular subclusters. (A13). 471582
- FERRIMAGNETIC MATERIALS:**
See also FERRITES
- phase transformations**
Cubic spin model with competing bilinear and higher-degree pair interactions on a linear chain in a magnetic field. (B22). 479437
- FERRITE:**
(A solid solution of carbon in alpha-iron.)
- cavity resonators**
Ferrite measurements for SNS accelerating cavities. (E16). 473674
- creep**
Comparison of the in-reactor creep of selected ferritic, solid solution strengthened, and precipitation hardened commercial alloys. (B25). 469451
- crystal lattices**
Mechanism of polarization of rare-earth ions in orthoferrites and orthochromites. (A13; Cr³⁺). 467412
- performance testing**
Ferrite measurements for SNS accelerating cavities. (E16). 473674
- precipitation**
Influence of the cooling rate on the separation of delta-ferrite in austenite weld metal. (B21). 486855
- FERRITE GARNETS:**
(Minerals with the general formula Y₃M₅O₁₂, where Y is yttrium or other rare earth, and M is usually iron, but may be another metal. For silicate garnets use GARNETS.)
- anisotropy**
Optical anisotropy associated with growth striation of yttrium garnet, Y₃(Al, Fe)₅O₁₂. (B12). 468775
- bloch wall**
Interaction between Bloch walls and dislocations in garnet films with cylindric domain structure. (A13). 492603
- crystal growth**
Crystal growth of garnets and orthoferrite from solutions-melts on seed crystals. (B12). 468866
Growing and magnetic properties of garnet epitaxial structures. (B12; Gd₃Ga₅O₁₂, Sm₃Ga₅O₁₂, Nd₃Ga₅O₁₂). 468868
Influence of the effect of face growth on Yb ion entrance into yttrium aluminium garnet. (B12). 468822
- domain structure**
Low-frequency excitation spectra and mobility of domain boundaries in thin ferrite-garnet films. (A13). 467358
- edge dislocations**
Interaction between Bloch walls and dislocations in garnet films with cylindric domain structure. (A13). 492603
- faraday effect**
Spin reorientation in HoG investigated by means of Faraday effect. (A13). 474704
- kerr effect**
Magneto-optical properties of praseodymium-containing garnets. (A13). 464187
- magnetic susceptibility**
Thermal and magnetic properties of Nd³⁺ in doped garnets. (A13). 477874
- magnetostriction**
Magnetic anisotropy and magnetostriction of erbium-yttrium ferrite garnets. (B12). 493637

- nuclear magnetic resonance**
 Quadrupolar interaction constants in some diamagnetic garnets. (A13). 477954
particle tracks
 Influence of nuclear tracks on the coercivity of single crystalline (Gd, Bi)₂(Fe, Ga)₂O₁₂ LPE garnet films. (B24). 479519
refraction
 Refraction index spectra of solid solutions of yttrium ferrite garnet with yttrium-gallium ferrite garnet. (A13). 474858
specific heat
 Thermal and magnetic properties of Nd³⁺ in doped garnets. (A13). 477874
thermal conductivity
 Thermal conductivity of yttrium iron garnet at low temperatures. (A13). 481108
- FERRITES:**
anisotropy
 Magnetodipole anisotropy and magnetostriction of rare-earth orthoferrites. (A13). 474846
block wall
 Velocity of motion of straight domain boundary in orthoferrites. (A13). 464138
charge transport
 Spin density and charge transfer in ferrites. (A13). 467395
domain structure
 Domain boundary structure in orthoferrites. (A13). 492617
 Superlimiting velocities of domain boundaries in orthoferrites. (A13). 464139
ferromagnetic resonance
 Investigation into hexagonal ferrites Ni₂ScW by FMR method in the temperature range 300-4.2 K. (B12). 478955
layers
 Analysis of various NDT techniques to determine their feasibility for detecting thin layers of ferrite on Type 316 stainless steel. (B25, E35, E17). 479535
magnetostriction
 Magnetodipole anisotropy and magnetostriction of rare-earth orthoferrites. (A13). 474846
oxygen
 The crystal structure of zinc cobalt ferrites by neutron diffraction. (A13). 488976
spin orientation
 Frequencies and relaxation of Fe³⁷ NMR signal in the region of the first-kind spin-reorientation phase transition of the Morin type in rare-earth orthoferrites. (A13). 474705
temperature inversions
 The crystal structure of zinc cobalt ferrites by neutron diffraction. (A13). 488976
- FERRITIN:**
radioimmunoassay
 Enzyme immunoassay for human ferritin. (C62). 461420
 Immunoradiometric determination of seric ferritin. (C45). 484630
structural chemical analysis
 Structure of the iron-containing core in ferritin by the extended x-ray absorption fine structure technique. (B12). 472431
- FERROCYANIDES:**
chemical radiation effects
 Radiation chemical transformations of colloidal ferri-ferrocyanides. (B14). 479220
- FERROELECTRIC MATERIALS:**
chemical preparation
 New compounds with the structure of hexagonal tungsten bronze type that have temperature dielectric anomalies. (B12). 493665
critical temperature
 Isotopic effect due to the saturation polarization in the ferroelectric of the KDP type. (A13). 471516
crystal structure
 Effect of deformations in the thermodynamical properties of an order-disorder model of eight sites for ferroelectric materials. (A13). 471447
dielectric properties
 Dielectric dispersion in semiconductor ferroelectric glass ceramics. (A13; BaTiO₃, KNbO₃, BaSnO₃). 474872
 Study of dielectric properties of some ferroelectric crystals by oblique phonon scattering. (A13). 471456
differential pac
 Temperature dependence of electric field gradients at Cd and Hf sites in cadmium perovskites. (A13). 459784
domain structure
 A method for observing the ferroelectric domain structure by using a time-of-flight neutron diffractometer. (A13). [Data] 474702
fabrication
 PLZT and PZT thin films by RF sputtering. (A13). 474791
ising model
 Ising model with tunneling for the phase transition in 'quasi-unidimensional' ferroelectric crystals. (A13). 471526
isotope effects
 Isotopic effect due to the saturation polarization in the ferroelectric of the KDP type. (A13). 471516
moessbauer effect
 Isomer shift and quadrupolar splitting of the Moessbauer spectrum of ferroelectrics. (A13). 474706
neutron diffraction
 Neutron diffraction. (B24). 460794
nuclear quadrupole resonance
⁷⁵As nuclear quadrupole interactions and lattice dynamics in KH₂AsO₄-type ferroelectrics and antiferroelectrics. (A13). 477957
order-disorder transformations
 Pressure of ferroelectric annihilation in materials of the KDP type. (A13). 471541
- permittivity**
 Study of dielectric properties of some ferroelectric crystals by oblique phonon scattering. (A13). 471456
- phase transformations**
 Fluctuations in two-dimensional six-vertex systems. (A13, B24). 489082
- sputtering**
 Electrical and optical properties and Auger (AES) compositional analysis of PZT thin films fabricated by RF-diode sputtering. (A13). 474859
 PLZT and PZT thin films by RF sputtering. (A13). 474791
- FERROMAGNETIC MATERIALS:**
crystallization
 Elinvar-type behavior in the alloy Fe₇₂Mo₂B₂₈. (B22). 465663
domain structure
 Domain structures of multiaxial monocrystal ferromagnetic films with (111) surface. (B22). 493947
 On domain boundary dynamics in weak ferromagnetics. (A13; YFeO₃). 492721
eddy current testing
 Basic examinations concerning eddy current testing of ferromagnetic materials. (E17). 470461
ferromagnetism
 A classification of the theories used in ferromagnetism. Pt. 1. (A13). 485579
 Mean-field theory of ferromagnetic superconductors. (A17). 478382
heisenberg model
 Self-consistent calculation of the superficial magnetization and localized excitations in Heisenberg ferromagnet. (A13). 471545
hyperfine structure
 Hyperfine fields and neutron scattering in ferromagnetic metals. (A13). 474733
magnetic properties
 A classification of the theories used in ferromagnetism. Pt. 1. (A13). 485579
magnetic susceptibility
 μ -meson method for studying nonuniformly-magnetized ferromagnetic materials. (A13; Co, Ni). 467401
magnetic testing
 A magneto-inductive method for the detection of discontinuous vibrations in mechanically stressed ferromagnetic metals. Pt. 1. (E17, B22). 470471
 Non-destructive materials testing by the magnetic stray flux method. (E17). 484884
materials testing
 A magneto-inductive method for the detection of discontinuous vibrations in mechanically stressed ferromagnetic metals. Pt. 2. (E17, B22). 470472
multiple scattering
 The investigation of double critical magnetic scattering in polarized neutron experiments. (A13). 483286
neutron diffraction
 Hyperfine fields and neutron scattering in ferromagnetic metals. (A13). 474733
 Itinerant electron magnetism in 3d-transition metals. (A31). 493116
nuclear magnetic resonance
 Bloch-wall NMR signals from nuclei with anisotropic hyperfine interaction. (A13). 489016
phase transformations
 The generalized spherical model of ferromagnetic films. (A13). 459795
sintering
 On the theory of sintering of ferromagnets. (B23). 481863
spin waves
 Itinerant electron magnetism in 3d-transition metals. (A31). 493116
superconductivity
 Mean-field theory of ferromagnetic superconductors. (A17). 478382
tunnel effect
 Studies of ferromagnetic metals by electron spin polarized tunneling. (B22). 479424
- FERROMAGNETISM:**
absolute zero temperature
 Zero temperature behaviour of a ferromagnet in a random skew field. (A13). 464150
hamiltonians
 Calculation of traces in the free energy of a model Hamiltonian. (A13, A11). 488983
heisenberg model
 Study of the features of a pair approximation for the resolution of the Heisenberg model. (A11). 471236
phase transformations
 Electromagnetic effects near the superconductor-to-ferromagnet transition. (A17). 485974
- FERROUS COMPOUNDS:**
 See IRON COMPOUNDS
- FERTILE MATERIALS:**
 (Materials containing nuclides capable of being transformed into fissile nuclides by neutron capture.)
quantitative chemical analysis
 Non-destructive assay of fissile and fertile material with an electron linear accelerator. (F41). 471156
- FERTILITY:**
biological radiation effects
 Reproductive capacity of rhesus monkeys following bilateral ovarian X-irradiation. (C14). [Data] 472958
chronic irradiation
 Effects of continuous gamma radiation on the reproductivity of mice. (C14). [Data] 482040
- FERTILIZERS:**
 See also SUPERPHOSPHATES

| | | | | | | |
|--|--|--------|--|---------------------------|--|--------|
| | efficiency | | | | renormalization | |
| | Comparison of fertilizer efficiency of anhydrous ammonia, urea, and ammonium sulphate for wheat and rice. (C41). | 463306 | | | Method for computing renormalization group functions in a dimensional renormalization scheme. (A11). | 492503 |
| | N-15-aided field experiments on evaluation of different methods of application of new slow-release nitrogen fertilizer for rice. (C41). | 484615 | | | scattering amplitudes | |
| [Data] | | | | | Regularization of Feynman amplitudes by point splitting. (A21; Fourier transformation). | 478449 |
| | mixing | | | FEYNMAN GAS MODEL: | | |
| | Bulk blending studies of fertilizer by tracer technique. (C22). | 463257 | | | free energy | |
| | quantitative chemical analysis | | | | The first terms of the free-energy in Feynman's model for the lambda transition. (A12). | 471338 |
| | Solvent extraction-liquid scintillation method for assay of uranium and thorium in phosphate-containing material. (B11, B16). | 460376 | | | multiple production | |
| | soils | | | | Density fluctuations in the Feynman-Wilson fluid and asymptotic structure of multiparticle events. (A21). [Data] | 464743 |
| | Efficiency of calcium phosphatic fertilizers in alkaline calcareous soils. (C41). | 491086 | | | FEYNMAN PATH INTEGRAL: | |
| | tracer techniques | | | | Path integrals and stationary-phase approximations. (A11). | 485328 |
| | Comparison of fertilizer efficiency of anhydrous ammonia, urea, and ammonium sulphate for wheat and rice. (C41). | 463306 | | | atom collisions | |
| | Isotopic tracer studies to evaluate relative efficiency of different forms of P for growing rice on different soil types. (C41). | 482121 | | | The application of path integral to multi-channel heavy particle collisions. (A12). | 471415 |
| | Nitrogen enhanced uptake of fertilizer phosphorus in wheat. (C41). | 482132 | | | computer calculations | |
| FESHBACH-PORTER-WEISSKOPF MODE: | | | | | On application of analytical transformation system using a computer for Feynman integral calculation. (F51). | 492349 |
| See OPTICAL MODELS | | | | | green function | |
| FESSENHEIM-1 REACTOR: | | | | | Dynamics on the group manifolds and path integral. (A11). | 492459 |
| | power supplies | | | | lie groups | |
| | Evaluation of the reliability and the availability of large repairable systems by the method of critical running states. (C52, E32). | 487548 | | | Dynamics on the group manifolds and path integral. (A11). | 492459 |
| | reactor components | | | | matrix elements | |
| | Problems of rare events in the reliability analysis of nuclear power plants. (C52, E32). | 487434 | | | The evaluation of Feynman integrals in the physical region using multi-valued approximants. (A21). | 468137 |
| | reactor operation | | | | nonlinear problems | |
| | Startup and first operation evaluation of the nuclear station at Fessenheim. (E32). | 491899 | | | Non-linear effects in path integrals and quantization of constrained systems. (A11). | 483062 |
| | reactor protection systems | | | | singularity | |
| | Probabilistic approach to safety assessment and design optimization of two PWR safety related systems (SIS and AFWS). (C52, E32). | 487557 | | | The evaluation of Feynman integrals in the physical region using multi-valued approximants. (A21). | 468137 |
| FESSENHEIM-2 REACTOR: | | | | | space-time | |
| | reactor operation | | | | Path integrals for a particle in curved space. (A11). | 467106 |
| | Startup and first operation evaluation of the nuclear station at Fessenheim. (E32). | 491899 | | | statistical mechanics | |
| FETAL MEMBRANES: | | | | | Applications of path integrals. (A11). | 492429 |
| See also PLACENTA | | | | | time dependence | |
| FETUSES: | | | | | A remark on time-dependent Hartree-Fock and functional approaches. (A33). | 462613 |
| | biological radiation effects | | | FFTF REACTOR: | | |
| | Adrenal activity of adult rats irradiated with 150 rads during fetal life. (C14; Gamma radiation). | 461032 | | | Survey and evaluation of FFTF instrumentation for systems code validation. (E36). | 488189 |
| | Distribution and retention of ²³⁹ Pu administered to rats at representative stages of gestation. (C21). [Data] | 473091 | | | after-heat removal | |
| | Effects of chronic ingestion of tritiated water on prenatal brain development. (C21; Rats). [Data] | 473104 | | | LMFBR fuel analysis. Task C: reliability. (C52, E36). | 480034 |
| | Radiation toxicity in dogs. (C14; Gamma radiation). | 469626 | | | containment buildings | |
| | cobalt 57 | | | | Containment response to postulated ex-vessel core meltdown accidents in the fast flux test facility. (C52, E36). | 494426 |
| | Fetal uptake of ⁶⁰ CoCl ₂ and ⁵⁷ Co-cyanocobalamin in different gestation stages of rats. (C21). | 473076 | | | contracts | |
| | cobalt 60 | | | | PMS: What are you getting for your money. (E36). | 488200 |
| | Fetal uptake of ⁶⁰ CoCl ₂ and ⁵⁷ Co-cyanocobalamin in different gestation stages of rats. (C21). | 473076 | | | control elements | |
| | congenital malformations | | | | Advanced absorber assembly design for breeder reactors. Summary. (E24, E36). | 461647 |
| | Defects of the central nervous system in Finland. IV. Associations with diagnostic x-ray examinations. (C15, C61). | 487251 | | | documentation | |
| | delayed radiation effects | | | | Records management at Westinghouse Hanford Company. (E36). | 488186 |
| | Long-term effects of ²³⁹ Pu injection in adult, weanling, newborn and fetal rats. (C21). [Data] | 473090 | | | failed element monitors | |
| | Offspring of patients treated for cancer in childhood. (C15). | 487260 | | | In-core gas release capsule development. (E36). | 461797 |
| | dtpa | | | | fuel assemblies | |
| | Fetal injury induced by Ca-DTPA in dogs. (C21). [Data] | 461110 | | | Interlaboratory computational comparisons of critical fast test reactor pin lattices. (E36). | 488191 |
| | Zn-DTPA safety in the mouse fetus. (C21). [Data] | 476607 | | | fuel cans | |
| | plutonium | | | | High temperature in-reactor creep of 20% cold worked FTR cladding. (E36, B25). | 461792 |
| | Influence of the mass of administered plutonium on its cross-placental transfer in mice. (C21). [Data] | 461113 | | | fuel element clusters | |
| | radiation doses | | | | Experimental fuel assembly irradiation experience in EBR II. (E35, E36). | 480688 |
| | Determining the radiation burden of human fetuses from radiopharmaceutical applications in nuclear medicine. (C21). | 484560 | | | fuel element failure | |
| | The effect of a high gamma dose on a human foetus. (C15). [Data] | 463206 | | | Analysis of terminated TOP accidents in the FTR using the Los Alamos failure model. (C52, E36). | 473240 |
| | Fetal dose with the 'Mantle' techniques in radiotherapy. (C63). | 463478 | | | Fast reactor fuel pin performance requirements for off-normal events. (C52, E36). | 487401 |
| | radionuclide kinetics | | | | fuel elements | |
| | Transplacental passage of plutonium in iron-deficient mice. (C21; ²³⁹ Pu). [Data] | 473083 | | | LMFBR fuel analysis. Task C: reliability. (C52, E36). | 480034 |
| | rose bengal | | | | fuel pins | |
| | Placental passage of rose bengal ¹³¹ I, its accumulation in the fetus and its distribution in the organs of the female mice. (C21). | 469796 | | | Babcock and Wilcox plutonium fuel fabrication experience. (E32, E36, E50). | 473911 |
| [Data] | | | | | Critical experiments with fast test reactor fuel pins in water. (E36). | 488179 |
| | vertebrae | | | | Early-in-life thermal performance of UO ₂ -PuO ₂ fast reactor fuel. (C52, E35, E36). | 480018 |
| | A radiographic study of the human fetal spine. (C61). | 494499 | | | Inspection techniques and processes for controlling FFTF fuel quality. (E36). | 463697 |
| FEYNMAN DIAGRAM: | | | | | heaters | |
| | Feynman graphs for Jastrow wave functions. (A33). | 460309 | | | Preheat operating experiences at the FFTF. (E36). | 474010 |
| | cross sections | | | | hot cells | |
| | Feynman rules for experimenters and rudiments of gauge theories of weak interactions. (A21). | 481378 | | | Design of the FMEF and material handling systems. (E36, E15). | 463693 |
| | lectures | | | | inspection | |
| | Feynman rules for experimenters and rudiments of gauge theories of weak interactions. (A21). | 481378 | | | Ultrasonic inspection development at HEDL. (E35). | 463670 |
| | numerical solution | | | | leak testing | |
| | The evaluation of Feynman integrals in the physical region using multi-valued approximants. (A21). | 468137 | | | Fast Flux Test Facility acceptance test program and early results. (E36). | 473999 |
| | | | | | loss of coolant | |
| | | | | | Analysis of the FFTF primary pipe rupture transients. (C52, E36). | 494425 |
| | | | | | loss of flow | |
| | | | | | SIMMER-II analysis of the R-7 TREAT test. (C52, E36). | 487421 |

- meltdown**
Containment response to postulated ex-vessel core meltdown accidents in the fast flux test facility. (C52, E36). 494426
- neutron absorbers**
BaC absorber pin in-reactor rupture test. (E36). 461802
Hot pressing of EuB_6 . (B23, E36). 490662
- performance testing**
Fast Flux Test Facility acceptance test program and early results. (E36). 473999
- personnel**
FFTF implementation of training requirements for government and commercially owned facilities. (E36). 492026
- pipes**
Practical considerations from construction of the FFTF pipe support system. (E36). 495039
- primary coolant circuits**
Preheat operating experiences at the FFTF. (E36). 474010
- pumps**
High temperature testing of a sodium pump. (E36). 473998
- radioactive waste facilities**
FFTF gas processing systems. (E36). 474002
- reactor accidents**
Procedure for the use of probabilistic risk assessments to establish ranking of research and development goals. (C52, E35, E36). 480158
- reactor cooling systems**
High temperature penetrant procedure for liquid metal pipe welds. (E36). 461793
- reactor safety**
Risk assessment methods application to the Fast Flux Test Facility. (C52, E36). 487478
Safety evaluation report related to operation of Fast Flux Test Facility. Supplement No. 1. (C52, E36). 491181
- reactor start-up**
Fast flux test facility ready to run. (E35, E36). 470741
Status of FFTF startup program and future FFTF utilization. (E36). 480724
- remote handling equipment**
Design of the FMEF and material handling systems. (E36, E15). 463693
- safety engineering**
Initial data collection efforts of CREDO. Sodium valve failures. (E35). 463667
- testing**
Fast flux test facility ready to run. (E35, E36). 470741
- transient overpower accidents**
Fast reactor fuel pin performance requirements for off-normal events. (C52, E36). 487401
- FIBER OPTICS:**
(The technique of transmitting light through long, thin, flexible fibers of glass, plastic or other transparent materials.)
- optical systems**
TOFS - A Timing Optical Fiber System. (E42). 488291
- physical radiation effects**
Transmission of free-running laser pulses of high energy and power densities through previously gamma-radiated fiber waveguides. (B25). 490732
- time measurement**
TOFS - A Timing Optical Fiber System. (E42). 488291
- FIBERGLASS:**
- adsorption**
Filtration of sodium-fire aerosols. (B24, E35). 472710
- decomposition**
Biodegradation of henequen fibers irradiated in presence of vinyl monomer. (B14). 490471
- etching**
Sputter etching of polymer fibres. (B25). 490717
- ferromagnetism**
Observation of particle trajectories near a magnetized fiber. (A11). 485373
- magnetic fields**
Observation of particle trajectories near a magnetized fiber. (A11). 485373
- physical radiation effects**
Radiation damage in commercial optical fibers. (B25). [Data] 472737
Radiation effects on organic insulators for superconducting magnets. Annual progress report for period ending September 30, 1978. (B25, E12). 465727
- radiolysis**
Irradiation of henequen-monomer-coloring fibers. Dampening time effects. (B14). 490501
- FIBRINOGEN:**
- distribution**
Distribution of iodine-labelled fibrinogen in rat during endotoxin shock. (C21). 482104
- iodine 125**
The in-vivo behaviour of electrolytically radioiodinated fibrinogen. (C62). [Data] 470163
- labelling**
I-125 labelling of fibrinogen by lactoperoxidase: evaluation in vitro and preliminary clinical investigation. (B13, C31). 490465
- FIBRINOLYSIS:**
- biological radiation effects**
On fibrinolytic phenomenon in the cancerous tissue of cervical carcinoma with special reference to irradiation changes. (C15). 473013
- FIBROBLASTS:**
- adenovirus**
 γ -ray-enhanced reactivation of UV-irradiated adenovirus in normal human fibroblasts. (C12). 476538
- alpha particles**
Cell survival following multiple-track alpha particle irradiation. (C11). [Data] 481990
- chromosomal aberrations**
Frequency changes with time in vivo of radiation-induced chromosomal aberrations in skin fibroblasts. (C11). 484436
- gamma radiation**
Serum-mediated differences in depth-related cell inactivation with ^{60}Co gamma rays. (C11). [Data] 476500
- oxygen enhancement ratio**
The oxygen enhancement ratio for radiation lethality in ataxia telangiectasia cells. (C11, C63). [Data] 463055
- photosensitivity**
Response of plateau-phase mouse embryo fibroblasts to ultra-violet light. (C11). [Data] 490909
- radiation injuries**
Repair of DNA in replicated and unreplicated portions of the human genome. (C11). [Data] 482006
- survival curves**
Survival curves of neoplastic and non transformed human cell lines: statistical analysis using different models. (C11). 465886
- FIBROSARCOMAS:**
- biological radiation effects**
Single dose x irradiation and concomitant hyperthermia on a murine fibrosarcoma. (C14, C63; Sensitizing effects of hyperthermia on tumors in mice subjected to local radiotherapy). 461040
- radiotherapy**
Significance of fractionation regimens in radiation and combined hyperthermia using a murine fibrosarcoma. (C14, C63). 461041
- FIBROSIS:**
- delayed radiation effects**
Biochemical late effects in rat lung exposed to different doses of X-rays. (C14). [Data] 479820
- diagnosis**
Diffuse pulmonary uptake of indium-111 chloride in idiopathic myelofibrosis. (C62, C21). 494566
- diagnostic techniques**
Determination of nanogram quantities of hydroxyproline as a means of measuring collagen densities to detect focal pulmonary fibrosis. (C60). 470020
- radiation effects**
Carcinoma of the vagina. (C15; Complications following whole-pelvis γ irradiation and radium implant therapy). 469709
Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998
Effect of penicillamine on radiation-induced pulmonary lethality in mice. (C14). 490968
Long term follow-up of combination chemotherapy - radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
Modification of radiation-induced pulmonary fibrosis in rats. (C14). 490977
Predictive model of early mortality following acute inhalation of PuO_2 aerosols. (C21; Extrapolation of beagle data to man). 491041
Respiratory tract tumors in Syrian hamsters following inhalation of $\text{Pu} - \text{ZrO}_2$ particles. (C21; Comparison with incidence of lung tumors following intravenous injection of $\text{PuO}_2/\text{ZrO}_2$ microspheres). 473099
Response of mesenteric blood vessels to irradiation. (C14; ^{90}Sr β applicator applied to exteriorized vessels). 476558
Toxicity of ^{144}Ce inhaled in a relatively insoluble form by aged beagle dogs. VI. (C21). 469753
Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 473029
Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- whole-body irradiation**
Development of fibrosis in dogs as a late consequence of whole-body X-irradiation. (C14). 482017
- FIELD EFFECT TRANSISTORS:**
- chemical radiation effects**
Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- electron beams**
Enhancement-mode ion-implanted InP F.E.T.S. (B25, A13). 462943
- epitaxy**
Sulfur incorporation and thickness variation in vapor-phase-epitaxial GaAs layers for FET's. (E13). 491538
- fabrication**
Germanium field-effect transistor made from a high-purity substrate. (E42). 488297
- ion implantation**
Enhancement-mode ion-implanted InP F.E.T.S. (B25, A13). 462943
- FIELD EMISSION:**
- ion sources**
Field-ionization point ion source. (D14). 476841
- FIELD EQUATIONS:**
See also DIRAC EQUATION; EINSTEIN FIELD EQUATIONS; EINSTEIN-MAXWELL EQUATIONS; KLEIN-GORDON EQUATION; SINE-GORDON EQUATION

- analytical solution**
The evolving, flowless drainhole: a nongravitating-particle model in general relativity theory. (A11). 471228
The gravitational perturbations of the Kerr black hole. (A15, A11). 471783
- lorentz invariance**
A unitary relativistic wave equation exhibiting extended particle structure. (A11). 483114
- nonlinear problems**
Characteristic 'quanta' of nonlinear field equations. (A11). 477581
Quantization of a nonlinear field equation. (A11). 477597
- numerical solution**
Particle solutions in a unified field theory. (A11). 488633
- singularity**
Dust distribution (cylindrically symmetric) in nonrigid rotation in Brans-Dicke theory. (A11). 488543
Klein paradox in the Breit equation. (A11). 474474
- variational methods**
Quadratic Lagrangians and Palatini's device. (A11). 488562
- FIELD THEORIES:**
See also ALGEBRAIC FIELD THEORY; AXIOMATIC FIELD THEORY; CONSTRUCTIVE FIELD THEORY; EINSTEIN-SCHROEDINGER THEORY; GENERAL RELATIVITY THEORY; LAGRANGIAN FIELD THEORY; LATTICE FIELD THEORY; PH4-FIELD THEORY; QUANTUM CHROMODYNAMICS; QUANTUM ELECTRODYNAMICS; QUANTUM FIELD THEORY; QUANTUM GRAVITY; RELATIVITY THEORY; UNIFIED GAUGE MODELS; WEINBERG LEPTON MODEL; WEYL UNIFIED THEORY; WIGHTMAN FIELD THEORY; YUKAWA NONLOCAL THEORY
Completely integrable theories as theories of spontaneous breakdown. (A11). 471258
Nonlocal continuum mechanics and some applications. (A11). 477615
Observable consequences of spontaneously broken non-abelian symmetries. (A11). 492505
- basic interactions**
Interactions in a model of extended particles. (A11). 483103
- coupling**
Linearization stability of couples gravitational and gauge fields. (A11; Space-time, Cauchy surfaces). 467006
- fermi interactions**
Unconventional field theories. (A11). 483040
- gauge invariance**
Field-strength and dual variable formulations of gauge theory. (A11). 467060
Gauge fixing and canonical quantization. (A11). 467028
The geometry of gauge fields. (A11). 492498
- instantons**
Method for Borel-summing instanton singularities: Introduction. (A11). 485294
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- magnetic fields**
Zeta function regularization of the one-loop effective potential. (A11). 459677
- magnetic monopoles**
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- perturbation theory**
Asymptotic estimates of perturbation theory at large orders. (A11). 483129
Tight upper and lower bounds on perturbation coefficients for anharmonic oscillators. (A11). 488551
- phase transformations**
First-order phase transitions in gauge theories. (A21, A11). 478506
- pomeranchuk particles**
Reggeon field theory and the crossover phenomenon. (A21, A11). 489850
- reflection**
Some remarks on reflection positivity. (A11). 483118
- regge cuts**
New approach to Reggeon quantum mechanics. (A11). 488556
- semiclassical approximation**
Gaussian fluctuations: 't Hooft's method and an approximate method. (A11). 488683
- sigma-410 resonances**
On renormalizable two-dimensional sigma-models with dynamical charges. (A11). 483023
- singularity**
Method for Borel-summing instanton singularities: Introduction. (A11). 485294
- solitons**
Classically solvable field theory model. (A11). 467082
Local field theory for solitons. II. (A11). 485279
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- space-time**
Field theories on conformally related space-times: Some global considerations. (A11). 488570
- spinors**
Mass perturbation around the exact solution of a two-dimensional field-theoretical model. (A11). 477568
A nonlocal spinor field theory of matter. (A11). 471247
- stability**
Linearization stability of couples gravitational and gauge fields. (A11; Space-time, Cauchy surfaces). 467006
- statistical mechanics**
Statistical mechanics and field theory. (A11; Path integrals, lattices, pseudofree vertex model). [Data] 488720
- symmetry breaking**
First-order phase transitions in gauge theories. (A21, A11). 478506
- two-body problem**
Successive canonical transformation in model two-body electrodynamics. (A11). 488705
- unitary symmetry**
Unitary field theories. (A11). 463880
- vortices**
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- FIELDS (CROSSED):**
See CROSSED FIELDS
- FIELDS (ELECTRIC):**
See ELECTRIC FIELDS
- FIELDS (GRAVITATIONAL):**
See GRAVITATIONAL FIELDS
- FIELDS (MAGNETIC):**
See MAGNETIC FIELDS
- FILAMENT (PLASMA):**
See PLASMA FILAMENT
- FILARIASIS:**
vaccines
Studies on the role of irradiated filarial parasites in inducing immunoprophylaxis against experimental filariasis. Part of a coordinated programme on the use of nuclear techniques in the preparation of vaccines against parasitic diseases. (C42). [Data] 484619
- FILLER METALS:**
creep
Study of tertiary creep instability in several elevated-temperature structural materials. (B22). 460690
- FILM BADGES:**
See PHOTOGRAPHIC FILM DOSEMETERS
- FILM BOILING:**
computer calculations
TRAWA, a transient analysis code for water reactors. (F51, E31, E32). 463831
- forced convection**
Forced convection film boiling from a horizontal cylinder. (I). (E11). [Data] 476896
Steady and transient film boiling on a sphere in forced convection. (E11). 476903
- heat transfer**
Low-flow film boiling heat transfer on vertical surfaces. I. Theoretical model. (C52, E11). 480013
Transient heat transfer of film boiling due to arrival of a pressure shock. (E11). [Data] 476889
- mathematical models**
Low-flow film boiling heat transfer on vertical surfaces. I. Theoretical model. (C52, E11). 480013
- shock waves**
Transient heat transfer of film boiling due to arrival of a pressure shock. (E11). [Data] 476889
- spheres**
Steady and transient film boiling on a sphere in forced convection. (E11). 476903
- transients**
Transient boiling in a partial film boiling region. (E11). [Data] 476890
- FILM COOLING:**
rewetting
The stationary boiling front in liquid film cooling of a vertical heated rod. (E11). 484817
- rods**
The stationary boiling front in liquid film cooling of a vertical heated rod. (E11). 484817
- FILM DOSEMETERS:**
See PHOTOGRAPHIC FILM DOSEMETERS
- FILM DOSIMETRY:**
Identification of the active species in the suppression of postirradiation conductivity in polystyrene films for dosimeter application. (B25, B14). 490729
- photographic films**
Photographic film dosimetry by low energy photon transmission. (E41). 474072
- FILM FLOW:**
Wave structure and transfer mechanisms at the interface of liquid films (a bibliographic synthesis). (E11). 473623
- experimental data**
An experimental and theoretical investigation of annular steam-water flow in tubes and annuli at 30 to 90 bar. (E11). [Data] 494695
- thickness**
Measurement of liquid film thickness by X-ray absorption. (E11). 494694
Measurement of liquid film thickness - Survey of existing methods. Development of a technique based on X-ray absorption. (D22). 473599
- FILMLESS SPARK CHAMBERS:**
See also SONIC SPARK CHAMBERS; WIRE SPARK CHAMBERS
- FILMS:**
(Not for the concepts covered by PHOTOGRAPHIC FILMS or NUCLEAR EMULSIONS.)
activation analysis
Molecular beam epitaxy of silicon. (A13, E42, B11). 474803
- auger electron spectroscopy**
Improved depth resolution in Auger depth profiling of multilayered thin films by reactive ion sputtering. (A13). 477855

| | |
|---|--------|
| cathode sputtering | |
| An ion source. (D14, B21). | 482514 |
| chemical bonds | |
| Elastomeric electron beam-cured coatings: structure-property relationships. II. Chain transfer agents. (B14, B24). | 486759 |
| crystal structure | |
| Considerations concerning the structure of thin films. (B24). | 486986 |
| domain structure | |
| Phenomenology of the domain walls in thin ferromagnetic films. (A13). | 485559 |
| Unipolar simple domain walls in thin ferromagnetic films. (A13). | 485560 |
| electron microprobe analysis | |
| Electron microprobe analysis of tantalum-nitride thin films. (E42). | 488306 |
| epitaxy | |
| Effects of charged particles on the epitaxy of evaporated films. (A13). | 489054 |
| fabrication | |
| Application of composition modulated thin films. (B22, B21). | 486888 |
| Future topics in basic nucleation and growth research. (B24). | 487003 |
| Large-area boron and carbon scatterers and filters. (B24). | 479528 |
| ferromagnetism | |
| Phenomenology of the domain walls in thin ferromagnetic films. (A13). | 485559 |
| ion beams | |
| A new approach for the study of transmission sputtering. (A13). | 462161 |
| ion microscopy | |
| The oxidation of clean ruthenium surfaces. II. (B22). | 469142 |
| liquid flow | |
| Instability of isothermal liquid films. (E11). | 491482 |
| mass | |
| Apparatus for simultaneous measurement of mass change, optical transmittance, and reflectance of thin films. (B24). | 476378 |
| mechanical properties | |
| Elastomeric electron beam-cured coatings: structure-property relationships. I. Oligomer structure. (B14, B24). | 486758 |
| Mechanical integrity of thin films. (B24). | 486994 |
| neutron diffraction | |
| Neutron scattering by adsorbed monolayers. (A31). | 460258 |
| nucleate boiling | |
| Nucleate boiling in thin liquid films. (E11). | 480345 |
| opacity | |
| Apparatus for simultaneous measurement of mass change, optical transmittance, and reflectance of thin films. (B24). | 476378 |
| plasma waves | |
| Excitation by optical radiation of surface plasma waves in multilayer structures: reflection coefficient and local energy distribution. (A13). | 488970 |
| production | |
| Considerations concerning the structure of thin films. (B24). | 486986 |
| quantitative chemical analysis | |
| Chemical analysis of anodic oxidic films on indium arsenide. (B11). | 475909 |
| Electron microprobe analysis of tantalum-nitride thin films. (E42). | 488306 |
| semiconductor junctions | |
| Preparation of InSb-LiNbO ₃ laminar structures and investigation of their properties. (B22, B21). | 476331 |
| sputtering | |
| A new approach for the study of transmission sputtering. (A13). | 462161 |
| surface coating | |
| Mechanical integrity of thin films. (B24). | 486994 |
| surface properties | |
| Excitation by optical radiation of surface plasma waves in multilayer structures: reflection coefficient and local energy distribution. (A13). | 488970 |
| time-of-flight mass spectrometer | |
| The oxidation of clean ruthenium surfaces. II. (B22). | 469142 |
| vapor condensation | |
| Influence of film condensation on the laminar flow in the entrance of a tube. (E11). | 482544 |
| FILTERS: | |
| <i>See also AIR FILTERS; ELECTRIC FILTERS; OPTICAL FILTERS</i> | |
| Evaluation of new filter/demineralizer precoat materials. (E31). | 470630 |
| cleaning | |
| Washing method of filter. (E31); by injecting exhaust gas from ventilator or air conditioner). | 491854 |
| control equipment | |
| Control connection, primarily for radioactive products filtration equipment. (E42). | 482890 |
| coolants | |
| Device to keep the cooling gas of nuclear reactors clean. (E13). | 461511 |
| dusts | |
| Installation for dust filtering. (E13). | 466501 |
| efficiency | |
| Filtration of sodium-fire aerosols. (B24, E35). | 472710 |
| fabrication | |
| Photon-counting spectral analyzing system of extra-weak chemi and bio-luminescence for biochemical applications. (E41). | 488251 |
| gas flow | |
| Filter for separating solids from gaseous media. (E13). | 470336 |
| gases | |
| Device to keep the cooling gas of nuclear reactors clean. (E13). | 461511 |
| graphite | |
| Improvement to deep graphite bed filters. (E22). | 484898 |
| radioactive aerosols | |
| Charging device for filter materials. (E13). | 482571 |
| ultrafiltration | |
| Relative solubility in simulated biological fluids of PuO ₂ on air sampler filters. (C21; ²³⁸ Pu, ²³⁹ Pu). [Data] | 473092 |
| FILTERS (ELECTRIC): | |
| <i>See ELECTRIC FILTERS</i> | |
| FINAL-STATE INTERACTIONS: | |
| four-body problem | |
| Singularities in four-body final state amplitudes. (A21). | 471968 |
| hadrons | |
| Experimentation at LEP. Hadronic final states. (E16, A20). | 470428 |
| Multi-jet structure of hadronic final states and trajectory slope. (A21). | 468107 |
| nuclear reaction kinetics | |
| On the relation between durations and cross sections of three-particle nuclear reactions in the outlet channel and on the "surrounding" scattering effect. (A33). | 493271 |
| scattering amplitudes | |
| The Muskhelishvili-Omnès equation and final state interactions. (A21). | 472010 |
| FINE CONTROL RODS: | |
| <i>See REGULATING RODS</i> | |
| FINE STRUCTURE: | |
| fundamental constants | |
| Fine structure constraint α . (A21). | 468077 |
| The problem of the fine structure constant determination from fine structure experiments on hydrogen. (A12). | 464005 |
| Variation of constants. (A11, A21, A34; Review). | 459666 |
| FINGERS: | |
| contamination | |
| Radiation exposure and contamination of personnel's hands in handling unshielded radioisotope sup(99m)Tc. (C55). | 473309 |
| radiation doses | |
| Radiation exposure and contamination of personnel's hands in handling unshielded radioisotope sup(99m)Tc. (C55). | 473309 |
| rheumatic diseases | |
| Rheumatoid arthritis in the hand. Chapter 9. (C61). | 487670 |
| surface contamination | |
| Radiation dose from skin contamination with sup(99m)Tc. (C55). | 476749 |
| FINITE DIFFERENCE METHOD: | |
| computer codes | |
| SLIC: an interactive mesh generator for finite element and finite difference application programs. (F50; STAR 100 and CRAY 1). | 492327 |
| FINITE ELEMENT METHOD: | |
| New beam and plate bending elements in finite element analysis. (C52, F51). | 461236 |
| asymptotic solutions | |
| Analysis of optimal finite-element meshes in R. (F50). | 492324 |
| boltzmann equation | |
| Finite element methods for static transport calculations. (A31). | 468223 |
| computer codes | |
| SLIC: an interactive mesh generator for finite element and finite difference application programs. (F50; STAR 100 and CRAY 1). | 492327 |
| mechanical vibrations | |
| Systems with many degrees of freedom excited by non-stationary random vibrations. (F51). | 471181 |
| stochastic processes | |
| Systems with many degrees of freedom excited by non-stationary random vibrations. (F51). | 471181 |
| FINITE-RANGE INTERACTIONS: | |
| three-body problem | |
| Integral equation for the wave function of three identical particles in the boundary condition model. (A33). | 475722 |
| FINLAND: | |
| atomic energy law | |
| Act No. 430 of 7 June 1978 amending Sections 4 and 5. (F22). | 463799 |
| natural radioactivity | |
| Cytogenetic investigation of people in Finland using household water with high natural radioactivity. (C21, B32, C15). | 487310 |
| nuclear liability | |
| Council of State Decision of 22 June 1978 on Exclusion of Certain Substances from the Nuclear Liability Act. (F25). | 463814 |
| Ministerial Decision No. 512/78 of 22 June 1978 on a Certificate under Section 40 of the Nuclear Liability Act. (F25). | 463815 |
| FINNISH REACTOR-1: | |
| <i>See FIR-1 REACTOR</i> | |
| FINS: | |
| deformation | |
| Mechanical effects of corrosion: an old problem in a new setting. (B15). | 472558 |
| gas flow | |
| Exchangers with thermal boundary layer renewal: splitters and chevrons in gas reactors. (E33). | 491933 |
| FIR-1 REACTOR: | |
| reactor instrumentation | |
| Renewal of FIR 1 instrumentation. (E36, E37). | 484998 |
| FIRE EXTINGUISHERS: | |
| tracer techniques | |
| Study of aircraft dropped fire-extinguishers spreading, using sodium 24 as tracer. (D24). | 463509 |

FIRE HAZARDS:

alarm systems

Radiation detector device. (E42). 488305

FIRE RESISTANCE:

bitumens

Burning test on a storage drum filled with a mixture of sodiumnitrate and bitumen. (E51, E52, B31). 482901

elastomers

Full-scale demonstration. Fire testing of a system for penetration sealing based on foamed silicone elastomer: Studsvik 77-05-26. (E17, B24). 461561

FIREBALL MODEL:

Abrasion-ablation calculations of large fragment yields from relativistic heavy ion reactions. (A33). 475763

Fire balls of discrete masses - a case against the existence of a maximum temperature of 160 MeV in high energy hadronic collisions. (A15). 471898

neon 20 reactions

Evidence for a blast wave from compressed nuclear matter. (A33). 478675

FIREBALLS (NUCLEAR):

See NUCLEAR FIREBALLS

FIRES:

alarm systems

Nuclear power plant fire protection: fire detection (subsystems study Task 2). (C52). 491121

data

Nuclear plant fire incident data file. (C52). 491199

ionization chambers

Ionization detector. (D22). 494671

sodium

Sodium fire and containment leakage. (E35). 463684

FIRESTREAK MODEL:

See NUCLEAR FIREBALL MODEL

FIRST WALL:

cleaning

Wall conditioning by low power discharge in the ISX-A tokamak. (A14). 489174

coatings

Boron coatings on graphite for fusion reactor applications. (A14, B22). 485793

Hydrogen retention and release in first-wall coatings for tokamaks. (A14). 485703

In situ first wall coating by discharge vapor deposition. (A14). 475121

Interaction of implanted deuterium and helium with beryllium: radiation enhanced oxidation. (A14). 489239

electric arcs

Deuterium plasma-material wall interactions. Progress report, 1 May 1978 - 30 Apr 1979. (A14). 489361

energy transfer

Major plasma disruptions in TNS. (A14). [Data] 464436

heat transfer

Heat transfer and stresses in the first wall of a reverse field pinch fusion reactor. (A14). 481227

helium 3 reactions

Measurement of the ${}^6\text{Li}({}^3\text{He},\text{d})\text{Be}$ and ${}^7\text{Li}({}^3\text{He},\text{t})\text{Be}$ cross sections. (A34, A14; 2.0 to 6.0 MeV). 460354

impurities

Ion beam analysis of surface modifications in tokamaks. (A14). 459970

interactions

Shock-tube study of fusion plasma-wall interactions. (A14). 485726

ion implantation

Interaction of implanted deuterium and helium with beryllium: radiation enhanced oxidation. (A14). 489239

lifetime

FWLTB: a mathematical model to calculate the lifetime of the fusion reactor first wall. (A14). 474982

maintenance

Comparison of five reactor concepts on the basis of scheduled maintenance requirements. (A14). 475014

Developing maintainability for tokamak fusion power systems. Phase II report. Volume I: executive summary. (A14). 485714

In situ regeneration of the first wall of a deuterium-tritium fusion device. (A14; Patent). 475111

materials testing

Application of martensitic stainless steels in long lifetime fusion first wall/blankets. (A14, B25; HT-9). 485799

Assessment of carbon and silicon carbide as first wall materials in inertial confinement fusion reactors. (A14). 475041

Composite materials for Tokamak wall armor, limiters, and beam dump applications. (A14). 459975

mathematical models

FWLTB: a mathematical model to calculate the lifetime of the fusion reactor first wall. (A14). 474982

mechanical properties

Thermal-hydraulic considerations in magnetically confined fusion reactors. (A14; Study of thermal fatigue problems). 485752

neutron reactions

Sensitivity of the first wall radiation damage to fusion reactor blanket composition. (A14). 459855

physical radiation effects

L3 (33) an analytic comparison of the effect of steady state and cyclic pulsed radiation on void growth and swelling. (A14, B25). [Data] 467591

Simulation of first wall damage: effects of the method of gas implantation. (A14, B25). 492804

shielding

Conception of thermonuclear reactor with a shielding layer of the first wall. (A14, B25). 483371

Hydrodynamic response of xenon gas after absorbing target debris. (A14). 462372

specifications

First-wall design limitations for linear magnetic fusion (LMF) reactors. (A14). 475031

First-wall/limiter design for a tokamak experimental power reactor. (A14). 459996

Tokamak reactors and structural materials. (A14). 478018

sputtering

Angular effects in the sputtering of stainless steel by hydrogen ions. (A14). 467684

Coolant channel sputtering source terms in a compact tokamak fusion power plant. (A14). 489106

Measurements of sputtering yields for low-energy plasma ions. (A14). 475107

Sputtering calculations with the discrete-ordinates method. (A12, A14). 477759

stability

Stability of the flow of thin liquid-lithium films. (A14). 489193

stresses

Response of a lithium fall to an inertially confined fusion microexplosion. (A14). 462335

surface properties

Particle and energy balances in tokamak plasmas. (A14). 467698

thermal fatigue

Thermal-hydraulic considerations in magnetically confined fusion reactors. (A14; Study of thermal fatigue problems). 485752

thermal stresses

First wall thermal stress analysis for suddenly applied heat fluxes. (A14). 474984

Heat transfer and stresses in the first wall of a reverse field pinch fusion reactor. (A14). 481227

voids

L3 (33) an analytic comparison of the effect of steady state and cyclic pulsed radiation on void growth and swelling. (A14, B25). [Data] 467591

FISCHER-TROPSCH SYNTHESIS:

chemical radiation effects

Effects of electron beam irradiation on gas mixture of carbon monoxide and hydrogen in the presence of solid catalysts. (B14). 481730

FISH PRODUCTS:

See also SEAFOOD

FISHES:

(Not for the concept of the edible flesh of a fish for which use SEAFOOD.)

See also SALMON; TROUT

Hydraulic considerations of the fish collection and removal concept. (C52). 473280

Impingement of juvenile and adult fishes during cooling water withdrawal. (B32). 479666

Threadfin shad impingement: effect of cold stress on a reservoir community. Environmental Sciences Division Publication No. 1198. (C52, B32). [Data] 473241

bacteria

Combined gamma-irradiation and potassium sorbate treatment to extend the shelf-life of precooked chub mackerel (rastrelliger - Sp.). (C43). 469855

Toxin production by Clostridium Botulinum type B (proteolitic) in radurized raw fish. (C43). 469858

behavior

Biological and engineering investigations of fish and larval diversion systems for water intakes. (C52). 473274

Economics of installation and operation of alternative screening devices pursuant to Sect. 316 (b). (C52). 473212

Home range and food habits of Pacific reef sharks (primarily the gray reef shark, Carcharhinus amblyrhynchos). (B32). 490834

Thermoregulation of fish and turtles in thermally stressed habitats. Annual progress report, October 1, 1977 - September 30, 1978. (B32). [Data] 472858

biological effects

Biological effects of solvent extraction chemicals on aquatic organisms. (C52, C21). [Data] 469905

biological radiation effects

Animal model of human disease. (C14). 469664

Biochemical effects of gamma radiation on "kembung" fish (rastrelliger neglectus). (C43). [Data] 469857

Effect of dose rate on survival time in the fathead minnow, Pimephales promelas. (C14; γ radiation). 472946

Techniques for demonstrating radiation pathology in aquatic organisms including histology and autoradiography. (C14). [Data] 484510

Techniques for detecting radiation effects on biochemical and physiological systems in aquatic organisms. (C14). 484527

body temperature

Thermoregulation of fish and turtles in thermally stressed habitats. Annual progress report, October 1, 1977 - September 30, 1978. (B32). [Data] 472858

cathepsins

Separation and identification of cathepsin of non irradiated and irradiated red-fish (Sebastes marinus). (B14). 468975

contamination

Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060

- cytological techniques**
Cytogenetic methods for the detection of radiation-induced chromosome damage in aquatic organisms. (C14). 484517
- delayed radiation effects**
Modelling techniques for predicting long-term consequences of the effects of radiation on natural aquatic populations and ecosystems. (C22). 484594
- dimensions**
Concept for protecting fish larvae at water intakes. (B32). 472861
- embryos**
Copper sensitivity of the Northern anchovy, *Engraulis mordax*, during its early life history. (C52). [Data] 487566
- entrainment**
Economics of installation and operation of alternative screening devices pursuant to Sect. 316(b). (C52). 469899
Entrainment of ichthyoplankton and larval fishes during cooling water withdrawal. (B32). 479667
Fish protection at steam-electric power plants: alternative screening devices. (C52). 473213
Fish protection at steam-electric power plants: alternative screening devices. (C52). 469900
Incorporation of sublethal effects and indirect mortality in modeling population-level impacts of a stress, with an example involving power-plant entrainment and striped bass. (C52). 476722
- food**
Home range and food habits of Pacific reef sharks (primarily the gray reef shark, *Carcharhinus amblyrhynchos*). (B32). 490834
- genetic control**
Genetically uniform strains of fish as laboratory models for experimental studies of the effects of ionizing radiation. (C14). [Data] 484543
- growth**
Cooling Systems Program. (B32). 479659
- indian ocean**
¹³⁷Cs and ⁴⁰K in the flesh of fish of the Indian Ocean and the Straits of Malacca. (C21). 487297
- iodine 131**
Excretion of ¹³¹I by freshwater catfish (*Ictalurus punctatus*) and bluegill (*Lepomis macrochirus*). (C21). 487299
- larvae**
Copper sensitivity of the Northern anchovy, *Engraulis mordax*, during its early life history. (C52). [Data] 487566
- lethal radiation dose**
Experimental approaches to demonstrate the interactions of radiation with other environmental stresses. (C14). 484509
- life span**
Effect of thermal shock on developmental stages of estuarine fish. Final report. (B32). [Data] 465814
- low dose irradiation**
Experiments for the quantitative assessment of the effects of radiation on the fertility and fecundity of aquatic organisms. (C14). 484508
- mortality**
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). 480090
Empirical model of impingement impact. Environmental Sciences Division publication No. 1289. (C52; Variables affecting model accuracy). [Data] 461176
- photoreactivation**
Photoenzymatic repair of ultraviolet-irradiated DNA in the cells of a shark, *Prionace glauca*. (C11). 463065
- plutonium 237**
Kinetics of intracardially injected plutonium-237 citrate in channel catfish (*Ictalurus punctatus*). (C21). 461111
- pollution**
Aquatic impact. (C52, F23). [Data] 494392
- population dynamics**
Application of fisheries management techniques to assessing impacts: task I report. (C21, C52; Assessment of chemical, radiological, and thermal impacts of nuclear power plants on fish populations). 473073
Aquatic Ecology Section. (B32, C21; ⁶⁰Co, ¹³⁷Cs, ³H). [Data] 479658
Empirical model of impingement impact. Environmental Sciences Division publication No. 1289. (C52; Variables affecting model accuracy). [Data] 461176
- preservation**
Fish preservation by combined treatment of curing and irradiation. I. combination treatment of salting, drying, and irradiation. (C43). [Data] 469856
- production**
Economic feasibility assessment of the Oak Ridge National Laboratory waste-heat polyculture concept. (B32). 465818
- radiation doses**
Methods of dosimetry for aquatic organisms. (D15, C22). [Data] 484787
- radiation induced mutants**
Methods for screening radiation-induced mutations in fish. (C14). [Data] 484531
- radioactivity**
Distribution of tritium in a chronically contaminated lake. (C22, C21; White Oak Lake in Oak Ridge Reservation). 461116
Knolls Atomic Power Laboratory annual environmental monitoring report. Calendar year 1978. (B33, C22, C52, C21). [Data] 487151
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
Radiological survey of plants, animals, and soil at five atolls in the Marshall Islands; September - October 1976. (B31, C22, C21). [Data] 469512
- radionuclide kinetics**
A study of the uptake and toxicity of some stable and radioactive pollutants in marine organisms: antimony, silver, cobalt and strontium in mollusks, crustaceans and teleosts. (C22). 473105
- radurization**
Toxin production by *Clostridium Botulinum* type B (proteolitic) in radurized raw fish. (C43). 469858
- reproduction**
Effect of thermal shock on developmental stages of estuarine fish. Final report. (B32). [Data] 465814
- response modifying factors**
Radiation effects in contaminated aquatic ecosystems and their relation to laboratory studies. (C22). 484593
- retention functions**
Radon and radium retention by the bluegill. (C21). [Data] 473066
- tritium**
Apparatus for freeze drying of biologic and sediment samples. (E42). 480795
The cycling of tritium and other radionuclides of global character in different types of ecosystems. Part of a coordinated programme. (C22). [Data] 484596
Tritium behaviour in aquatic plants and animals in a freshwater marsh ecosystem. (C21). 491011
- whole-body irradiation**
Genetically uniform strains of fish as laboratory models for experimental studies of the effects of ionizing radiation. (C14). [Data] 484543
- FISSILE MATERIALS:**
(Materials containing nuclides capable of undergoing fission by interaction with slow neutrons.)
- activation analysis**
Analysis of fissile materials by cyclic activation of delayed neutrons. (B11, F41). 468628
- autoradiography**
The use of solid-state nuclear track detection for the study of boron and fissile nuclide distributions in steel samples. (B11). 472367
- breeding**
Fusion hybrid. (A14, D11). 485662
- calorimetry**
Calorimetric assay of HTGR fuel samples. (B11). 475866
- criticality**
Enhanced safety in the storage of fissile materials. (E15; Neutron absorbers). 473654
Nuclear safety guide. TID-7016, Revision 2. (E15). 487876
Random geometry model in criticality calculations of solutions containing Raschig rings. (C54, E15). 461347
- inventories**
INMACS: a computer assisted on-line fissile material inventory and criticality control system. (F41, F30). 488483
- nondestructive analysis**
Simulated neutron tomography for nondestructive assays. (F41, B11). 488470
Use and development of non-destructive analysis for the EURATON (CEC) safeguards directorate. (F41). 488452
- packaging**
Standard format and content of Part 71 applications for approval of packaging of Type B, large quantity, and fissile radioactive material. (E15). 480401
- physical protection devices**
Multiple application coded switch development report. (E13, E15). 480379
- quantitative chemical analysis**
Non-destructive assay of fissile and fertile material with an electron linear accelerator. (F41). 471156
- storage**
Enhanced safety in the storage of fissile materials. (E15, B24; Boron-loaded epoxy resin). 476939
- transport**
Multiple application coded switch development report. (E13, E15). 480379
- FISSION:**
See also ELECTROFISSION; FAST FISSION; PHOTOFISSION; SPONTANEOUS FISSION; TERNARY FISSION; THERMAL FISSION
Contribution to the study of the influences of the excitation energy on the characteristics of the fission process. (A33). 490110
Physics and chemistry of fission. (A33, B13). 493196
- adiabatic approximation**
An adiabatic time dependent mean field approach for the optimal fission path. (A33). 465042
- alpha reactions**
Nuclear friction observed in the fission of heavy nuclei from threshold Bsub(f) to threshold Bsub(nf). (A34). 465116
- asymmetry**
Systematics of asymmetry in fission based on order-disorder model. (A33). 460281
- coulomb field**
How prompt is Coulomb fission. (A34). 481576
- critical mass**
Critical masses of miniexplosion in fission-fusion hybrid systems. (A14). 478083
- cross sections**
Current status of nuclear data at B.A.R.C. (A34). 481558
A study of the effect of intermediate structure in the fission cross section of ²³⁹Pu on self-shielding factors. (A33). 484484
- gases**
Dominant factors in carbide fuel swelling. (A12). [Data] 467291
- heavy ion reactions**
Induced Coulomb fission. (A33). 472186

- heavy nuclei**
Gamma ray analysis and the fission process in heavy nuclei. (A33, A34). 486301
- intermediate structure**
A study of the effect of intermediate structure in the fission cross section of ^{239}Pu on self-shielding factors. (A33). 481484
- nuclear reaction kinetics**
Dynamics of nuclear fission and heavy-ion reactions. (A33). [Data] 493268
Three lectures on macroscopic aspects of nuclear dynamics. (A33). 493302
- p invariance**
To the theory of parity non-conservation effects in nuclear reactions. (A33). 493289
- pion reactions**
Theory of nuclear fission by stopped pions. (A33). 483784
- potential energy**
Experimental survey of the potential energy surfaces associated with fission. (A33; Mass and axial symmetry, probability). [Data] 481473
- precipitation**
Dominant factors in carbide fuel swelling. (A12). [Data] 467291
- radiochemistry**
1938, at the Kaiser-Wilhelm-Institut fuer Chemie, Berlin-Dahlem. (B13). 468923
- reviews**
Gamma ray analysis and the fission process in heavy nuclei. (A33, A34). 486301
- statistical models**
Dynamical interpretation of the statistical theory of fission. (A33, A11). 475728
- strength functions**
Evaluation of statistical resonance parameters for ^{238}U using ADDJA code in energy range 4 to 25 keV. (A33). 481483
- thorium 232**
Charged particle induced nuclear fission. (A34). [Data] 490214
- thorium 233**
Fission properties of ^{233}Th . (A34). 472307
- FISSION CHAMBERS:**
- accuracy**
Measurement and analysis of gamma ray induced contamination of neutron dosimetry procedures used for reactor pressure vessel applications. Final report. (E32, E31; PWR;BWR). 488077
- in core instruments**
Shielded neutron detector. (E24, E41). 466646
- performance**
Instrumentation for fission cross section measurements on actinides. (E41). 480756
- FISSION FOIL DETECTORS:**
- accuracy**
Measurement and analysis of gamma ray induced contamination of neutron dosimetry procedures used for reactor pressure vessel applications. Final report. (E32, E31; PWR;BWR). 488077
- fabrication**
Thin-film fission thermocouples: a new detector for reactor safety experiments. (E41). 477415
- fission fragment detection**
Two parameter studies of TFD response to fission fragments for measurements of fragment mass and energy distributions. (E41). 470809
- performance**
Importance of subthreshold fission phenomena in certain applications of fission threshold applications of fission threshold detectors: an example of neptunium-237 for nondestructive assay. (E23, D22). 491772
- Neutron fluence measurements with solid-state nuclear track detectors: results of a comparative study with gold and indium foils. (E41). 474020
- specifications**
Thin-film fission thermocouples: a new detector for reactor safety experiments. (E41). 477415
- FISSION FRAGMENT DETECTION:**
- abrasion**
Wear measurement by implantation of fission fragments. (D24). [Data] 463512
- angular correlation**
Analysis of angular correlations between complementary fission products. (E41). 492043
- si semiconductor detectors**
Charge multiplication in silicon radiation detectors under dense irradiation. (E41). 466795
- spontaneous fission**
A low background spontaneous fission detection system. (E41). 470834
- thorium 232 target**
Photofission of ^{232}Th at low energies. (A34). 478743
- wear**
Wear measurement by implantation of fission fragments. (D24). [Data] 463512
- FISSION FRAGMENTS:**
- angular distribution**
Angular distributions of fragments in n-induced fission of Th, U, Np and Pu. (A34). [Data] 481568
- Direct evidence for multiple sequential fission in the interaction of ^{208}Pb and ^{238}U with uranium. (A34; 1535 and 1785 MeV). [Data] 465139
- A formalism for the angular distributions of the electro and photofission fragments. (A33). 472141
- Studies of relativistic heavy ion induced fission: fragment angular distributions. (A34; 21-GeV ^{20}Ne + ^{238}U). [Data] 486316
- angular momentum**
Distribution of nuclear charge and angular momentum in chains 132-137, 99, and 102 of thermal neutron fission of ^{235}U at various kinetic energies and charge states of the fragments. (A33; Fission product yield, angular momentum, preliminary data). [Data] 493187
- backscattering**
Experimental and theoretical study of the backscattering of fission fragments. (E34). 470725
- beta spectra**
Investigations of the hard beta radiation from ^{252}Cf fission. (A34). [Data] 472235
- de-excitation**
Statistical model analysis of spin influence on the deexcitation of fission fragments. (A33; Angular momentum). 465033
- electric charges**
Distribution of nuclear charge and angular momentum in chains 132-137, 99, and 102 of thermal neutron fission of ^{235}U at various kinetic energies and charge states of the fragments. (A33; Fission product yield, angular momentum, preliminary data). [Data] 493187
- energy spectra**
Energy and angular correlation of He ions and heavy fragments in 11.5-GeV proton bombardment of uranium. (A34, A22). 475856
- friction**
Frictional effects on post-scission dynamics and fission fragment kinetic energies. (A33). 468387
- heavy ions**
Experimental evidences of the induced emission of heavy ions by uranium a low energies. (A34). 462630
- internal conversion**
Probability of muon conversion in prompt fission fragments. (A33). 493238
- kinetic energy**
Dynamics of nuclear fission and heavy-ion reactions. (A33). [Data] 493268
- Frictional effects on post-scission dynamics and fission fragment kinetic energies. (A33). 468387
- Spontaneous fission of ^{259}Md . (A34). [Data] 486396
- liquid drop model**
On the charge and shape polarization of fission fragments, fusing nuclei, or scattering heavy ions near contact. (A33). 462607
- mass**
Spontaneous fission of ^{259}Md . (A34). [Data] 486396
- mass spectra**
Shoulders in the very asymmetric mass distribution for reactor-neutron-induced fission of ^{238}U . (A34). 478764
- muonic atoms**
Probability of muon conversion in prompt fission fragments. (A33). 493238
- nuclear deformation**
On the charge and shape polarization of fission fragments, fusing nuclei, or scattering heavy ions near contact. (A33). 462607
- plutonium 239**
Experiments to determine the rate of beta energy release following fission of Pu239 and U235 in a fast reactor. (E21). 482667
- range**
On the use of solid state nuclear track detectors for the measurement of ranges of charged particles. (E41). 474022
- slowing-down**
Slowing down of ions in diatomic crystals. (A13). 471562
- sommerfeld-watson theory**
Sommerfeld-Watson transformation for nuclear fission. (A33). 481614
- spatial distribution**
Studies of relativistic heavy ion induced fission: fission fragment charge distributions. (A34). [Data] 486315
- spin**
Product yields for the photofission of ^{238}U with 12-, 15-, 20-, 30-, and 70-MeV bremsstrahlung. (A34). [Data] 465153
- time-of-flight method**
Fission fragment energy-velocity correlation measurements for the $^{233}\text{U}(d, pf)$ -reaction. (E41, A34). 477381
- uranium 235**
Experiments to determine the rate of beta energy release following fission of Pu239 and U235 in a fast reactor. (E21). 482667
- valence**
The oxidation state of fission fragment iodine in potassium chloride. (B13). [Data] 460577
- FISSION ISOMERS:**
- gamma spectra**
On gamma quanta resulted from a spontaneously fissioning isomer population in the $^{241}\text{Am}(n, \gamma) \text{sup}(242\text{m})\text{Am}$. (A34). 465233
- spontaneous fission**
Some problems concerning the investigation of spontaneously fissioning isomers. (A34). 481523
- FISSION NEUTRONS:**
See also DELAYED NEUTRONS; PROMPT NEUTRONS
- absorption**
Linearity assumption in adjustment procedures. (E41, A31). 466839
- depth dose distributions**
Depth-dose distribution for fission neutron spectra degraded through low Z shields. (A31). 468233
- mice**
Repopulation kinetics and radiation response of spermatogonial stem cells in the mouse during recovery of the seminiferous epithelium after irradiation with fission neutrons of 1 MeV mean energy. (C11). 460945

| | |
|--|--------|
| microdosimetry | |
| Physical and microdosimetric studies of neutron beams used in radiobiology. (A31, E41). | 472108 |
| multiplicity | |
| Symposium summary: nuclear data problems for thermal reactor applications. (E21, A34). | 491717 |
| neutron dosimetry | |
| Effect of etching solution normality on electrochemical etching of recoil particle tracks in polycarbonate. (E41, C55). [Data] | 477347 |
| plutonium 239 target | |
| Search for fission neutrons with an energy above 40 MeV. (A34). | 493441 |
| rbe | |
| The effect of ionizing radiation on the survival of free plant cells cultivated in suspension cultures. (C11). [Data] | 463064 |
| Life shortening in RFM and BALB/c mice as a function of radiation quality, dose, and dose rate. (C14). [Data] | 476571 |
| RBE for carcinogenesis by fission neutrons, and reply by Rossi, H.H.; Mays, C.W. (C15). | 487264 |
| uranium 235 target | |
| Search for fission neutrons with an energy above 40 MeV. (A34). | 493441 |
| FISSION PRODUCT RELEASE: | |
| (Limited to the release of fission products to the biosphere. Coordinate with descriptors for specific fission products, if known.) | |
| Comparison of FISGAS swelling and gas release predictions with experiment. (C52, E35). | 480122 |
| Fission product source terms for the LWR loss-of-coolant accident. (C52, E32). | 461245 |
| computer calculations | |
| Aerosol measurements and modeling for fast reactor safety. Annual report for FY 1978. (C52, E35). | 487486 |
| fuel storage pools | |
| Arrangement for the prevention of contamination of a fuel element storage pool. (E22). | 477129 |
| iodine 131 | |
| B 34/78 Fuel model studies. Migration of I-131 in fuel rods with burn-ups of 5-30 MWd/kg U re-irradiated at power of 40-60 kW/m for up to five days. (E23, E21). [Data] | 491782 |
| mathematical models | |
| Fission gas release (FGASRL). (E31, E32; BWR; PWR). | 470634 |
| Fission product source terms for the LWR loss-of-coolant accident. (C52, E32). | 461249 |
| Numerical method of the aerosol behavior reference code, CRAB. (C52, E35; LMFBR). | 487510 |
| on-line measurement systems | |
| On-line ultrasonic gas entrainment monitor. (E42, E35; Patent; LMFBR fission gas bubble release). | 470989 |
| radiation doses | |
| Comparison of Nordic dose models. (F51, C52, B33). | 480951 |
| LIGA - A program to calculate the local individual gamma submersion dose due to waste air plumes of nuclear facilities. (C52, B33, C55). | 473208 |
| ringhals-2 reactor | |
| 4radia=radioa\$. (C52, E32). | 482216 |
| risk analysis | |
| Radionuclide release into the environment. Assessment of doses to man. (C51, C52). | 473192 |
| solidification | |
| Volatility of alkali fission products during solidification process. (E51). | 495199 |
| technetium 99 | |
| A new look at ⁹⁹ Tc releases to the atmosphere. (C21, C51). | 463247 |
| FISSION PRODUCTS: | |
| Measurements of impurity migration in graphite at high temperatures using a proton microprobe. (C52, B24, E33; HTGR cores). | 461294 |
| after-heat | |
| Application of least-squares method to decay heat evaluation. (E21). | 461600 |
| The osiris facility. (A34). | 478688 |
| alpha particles | |
| Light-charged particle emission in keV neutron-induced fission of ²³⁹ Pu. (A34). | 468514 |
| angular correlation | |
| Analysis of angular correlations between complementary fission products. (E41). | 492043 |
| beta decay | |
| Average beta and gamma energies of fission products. (A34). [Data] | 460359 |
| carbon dioxide | |
| Determination of uranium, plutonium and selected fission products in the coolant of the KS-150 reactor. (B11). [Data] | 490317 |
| chemical properties | |
| The chemistry of the fission products. (B13). [Data] | 490429 |
| chemisorption | |
| Fixation mechanism between zeolite and some radioactive elements. (B16, B13). [Data] | 462818 |
| contamination | |
| Studies on primary system contamination. (E35). | 461757 |
| coordinated research programs | |
| Fission product release and plateau in HTGRs. The CPL 2 experiments in the Pegase experimental reactor at Cadarache Nuclear Research Center (France). (E33). | 466706 |
| cross sections | |
| Evaluated neutron cross sections and resonance integrals of the fission products with Z=51-56. (A33). [Data] | 493206 |
| Evaluated neutron cross sections and resonance integrals of the fission products from Z=32-37. (A33). [Data] | 493274 |
| Fission product group constants for fast reactors. (E21). | 482671 |
| electron microprobe analysis | |
| Measurement of retained xenon in advanced fuels by microprobe analysis. (B11). | 468679 |
| energy levels | |
| Level schemes for some fission product nuclides. (A34). | 468524 |
| energy yield | |
| Nuclear data library of fission products for decay power calculation. (C52, E31, E32; BWR; PWR). | 491202 |
| extraction chromatography | |
| Extraction chromatography of fission products. (B11). | 468597 |
| fission yield | |
| Fission yields for thermal-neutron fission of plutonium-241. (A34). [Data] | 490145 |
| Possible viscosity effects in neutron-induced fission of ²³² Th and ²³⁸ U. (A34; Yields). [Data] | 490166 |
| fuel rods | |
| Preliminary calculation for fission products generation and accumulation in different types of fuel rods by computer code FPRM-1. (E23). | 491776 |
| gamma spectroscopy | |
| Analysis of fission products emission of a leaking fuel pin. Thermal cycling effect. (B11; gamma spectrometry). | 483979 |
| Nondestructive gamma spectrometric determination of the fission products activities ratios in the reactor RA used fuel element. (A13). | 481080 |
| group constants | |
| Fission product group constants for fast reactors. (E21). | 482671 |
| half-life | |
| On-line nuclear half life and spectroscopic measurements on mass-separated fission product nuclei. (A34). [Data] | 460347 |
| interfering elements | |
| Nuclear interferences of uranium fission products in neutron activation analysis. (B11). | 468677 |
| inventories | |
| Magnox fuel inventories. Experiment and calculation using a point source model. (E33). [Data] | 466709 |
| leaks | |
| Release of fission products from a fuel rod with an artificial hole through cladding irradiated in an in-pile water loop. (2). (E31, E32). [Data] | 491853 |
| mass spectra | |
| Isotopic mass dispersion discontinuity in various fission processes and its interpretation as a neutron shell effect. (A33). | 475781 |
| Mass distribution in the neutron induced fission of ²³⁵ U. (A34). | 486425 |
| maximum permissible concentrat | |
| Radiological impact of advanced power reactor systems on the environment. (C52). | 482215 |
| nondestructive analysis | |
| Nondestructive gamma spectrometric determination of the fission products activities ratios in the reactor RA used fuel element. (A13). | 481080 |
| nuclear data collections | |
| A brief description of the ENDF/B-V format adopted for use in the UK decay and fission product yield data files. (A34). | 468564 |
| patent law | |
| USSR: Specific aspects of the patent protection of materials obtained by nuclear fission. (F27). | 480926 |
| physical properties | |
| The chemistry of the fission products. (B13). [Data] | 490429 |
| quantity ratio | |
| Sensibility analysis of the effect of various key parameters on fission product concentration mass number 127 to 132 and Xe - 133 m). (B11). [Data] | 490314 |
| Sensibility analysis of the effect of various key parameters on fission product concentration (Mass Number 133 to 138). (B11). [Data] | 490315 |
| radiation monitoring | |
| Radionuclides and trace metals in surface air. (B33, C52, B11). | 476482 |
| radioactivity | |
| Carbon-14 production in nuclear reactors. (E31, E32, E33). | 473859 |
| Map of calculated radioactivity of fission product. (4). (A33). [Data] | 481511 |
| radioecological concentration | |
| Radioactive fallout from Chinese nuclear weapons test of March 15, 1978. (B33; ¹²⁴ Sb, ¹³¹ I). | 479732 |
| radionuclide kinetics | |
| Interactions of transuranic wastes with soils. (C22, C21). | 461118 |
| radionuclide migration | |
| Development of the method of evaluation of underground containment of fission radioactive gases caused at the hypothetical accident of underground nuclear power station. (C52). | 476694 |
| reaction product transport | |
| Continuous processing for the separation of fission products using a gas jet as transport system. (B13). | 460570 |
| research programs | |
| Progress in fission product nuclear data. (A34). | 481577 |
| resonance integrals | |
| Evaluated neutron cross sections and resonance integrals of the fission products with Z=51-56. (A33). [Data] | 493206 |
| Evaluated neutron cross sections and resonance integrals of the fission products from Z=32-37. (A33). [Data] | 493274 |
| separation processes | |
| Process for separating fission gases from irradiated nuclear fuel. (B16). | 481760 |
| soils | |
| Interactions of transuranic wastes with soils. (C22, C21). | 461118 |

- solidification**
A design study for a fission product fixation plant and storage at Windscale. (E51). 495193
- solubility**
Solid solubility of fission product and other transition elements in carbides and nitrides of uranium and plutonium. (B23, B25, B13). 469352
- solvent extraction**
Distribution ratios and empirical equations for the extraction of elements in purex high level waste solution. (B12, B13). [Data] 460532
Extraction process of fission products contained in irradiated nuclear fuel elements. (B16). 490512
- spatial distribution**
Fission product migration in intact fuel rods. (E34, E23). 461733
- spin**
Dynamical interpretation of the statistical theory of fission. (A33, A11). 475728
- tables**
Tables of RCN-2 fission-product cross section evaluation. (E21). [Data] 484888
- tritons**
Light-charged particle emission in keV neutron-induced fission of ^{239}Pu . (A34). 468514
- vitrification**
The continuous vitrification plant for fission products at Marcoule. (E51, E52). 474202
Glasses with amorphous structure used for the packaging of radioactive waste. (E52). 485170
- volatility**
Volatility of alkali fission products during solidification process. (E51). 495199
- FISSION SPECTRA:**
Summary of fission spectrum workshop held at the National Neutron Cross Section Center, Brookhaven National Laboratory, October 23, 1978. (A34; Cross sections, review, neutron spectra). 478774
- cross sections**
Fission spectrum averaged activation cross-sections for some neutron detectors. (B11). 483997
- FISSION TRACKS:**
Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504
- age estimation**
Fission track dating of the Tertiary rock samples from Northeast Japan. (B31). 476465
Fission track geochronology of Eastern Ghats. (B31). 469533
- distribution**
Measurement of density distribution of fission traces by the tracer's method in dielectrics. (D24, E41). 487815
- range**
Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- uranium**
Development of the fission fragment track registration technique for the determination of the uranium contamination. (B11, E41). 472389
- FISSION YIELD:**
Analysis of slifer data from underground explosions. (E14). 480393
- alpha particles**
Light-charged particle emission in keV neutron-induced fission of ^{239}Pu . (A34). 468514
- asymmetry**
Systematics of asymmetry in fission based on order-disorder model. (A33). 460281
- c codes**
Fission product decay energy release rate data for fast reactors. (A34, E21). 481585
- computer calculations**
Fission product yields. (A33, A34). [Data] 483809
- order-disorder model**
Systematics of asymmetry in fission based on order-disorder model. (A33). 460281
- tritons**
Light-charged particle emission in keV neutron-induced fission of ^{239}Pu . (A34). 468514
- FISSION-LIKE REACTIONS:**
See *QUASI-FISSION*
- FISSIONABLE MATERIALS:**
(Materials containing nuclides capable of undergoing fission by any process.)
See also *FISSILE MATERIALS*
- air transport**
Review of physical protection program in the Federal Republic of Germany. (F41, E15; Transport by helicopters). 488462
- particles**
Isolation and characterization of individual plutonium-bearing particles in atmospheric effluents from a nuclear processing plant. (C52, B13, E52). 487570
- physical protection**
The IAEA's role in promoting physical protection of nuclear material and facilities. (F41). 466946
- radionuclide migration**
Application of Eh-pH diagrams to problems of retention and/or migration of fissionogenic elements at Oklo. (B31). [Data] 479567
- storage**
Storage Apparatus. (E52, C52). 474241
- transport**
Computerized transportation model for the NRC physical protection project. (E15, F41). 487865
- FISSIONABLE MATERIALS MANAGEMEN:**
See *NUCLEAR MATERIALS MANAGEMENT*
- FISTULAE:**
biomedical radiography
Arterial supply of carotid-cavernous fistulas. (C61). 491272
Radiological evaluation of anal fistulae: a prospective study of fistulograms. (C61). 476759
- carotid arteries**
Arterial supply of carotid-cavernous fistulas. (C61). 491272
- radiation effects**
Carcinoma of the floor of the mouth. (C15, C63, C64; Side effects of external and interstitial radiotherapy). 461071
Complications of combined surgery and neutron radiation therapy in patients with advanced carcinoma of the head and neck. (C15, C63). 487252
Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019
Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998
Limitations of adjunctive surgery in carcinoma of the cervix. (C15, C63, C64). 473022
Radiation management of carcinoma of the cervical stump. (C15, C63, C64; Complications following external and internal radiotherapy). 487269
Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 473029
Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- surgery**
Radiosurgical treatment of endometrial carcinoma: the value of simple surgery versus extended surgery. (C15, C63, C64; Comparison of incidence of radiotherapeutic complications in relation to simple or extended surgery). 473018
- FIXATION (WASTE TREATMENT):**
See *SOLIDIFICATION*
- FLANGES:**
gaskets
Sheet gasket for stainless steel pipes. (B15). 481756
- stress corrosion**
Sheet gasket for stainless steel pipes. (B15). 481756
- ultrasonic testing**
Practical applications of fracture mechanics methods for the assessment of large scale structures. (E34, E17). 482786
- FLASH TUBES:**
cooling systems
Step-by-step approach to convective cooling of laser disc amplifiers. (A14). 492731
- plasma expansion**
Plasma-wall interaction in flashtubes. (A14). 485828
- plasma instability**
Plasma-wall interaction in flashtubes. (A14). 485828
- power supplies**
Applying a Compensated Pulsed Alternator to a flashtube load for NOVA. (A14). 492739
Balanced, parallel operation of flashtubes. (A14). 492740
Pulsed power supplies for laser flashtubes. Final report. (A14). 471612
- ultraviolet radiation**
Study of the near ultraviolet emission of tellurium-doped xenon flashtubes. (A14). 467660
- FLASHING:**
See *EVAPORATION*
- FLASKS:**
See *CASKS*
- FLATTENING (NEUTRON FLUX):**
See *NEUTRON FLUX FLATTENING*
- FLAVENOIDS:**
See also *FLAVONES; QUERCETIN*
- metabolism**
Pharmacodynamic study of total flavanolic oligomers (TFO) using ^{14}C . Physiological model. (C31). 491072
- radiosensitivity**
Dose-modifying effect of a cyanidine chloride derivative, keracyanin, for uv irradiation of murine L fibroblasts cultured in vitro. (C11). [Data] 479753
- FLAVINES:**
metabolism
Metabolism of injected flavins studied by using double-labeled [^{14}C]flavin adenine dinucleotide and [^{32}P]flavin mononucleotide. (C45). 476657
- FLAVONES:**
See also *QUERCETIN*
- carcinogenesis**
Experimental study of the cocarcinogenic effect of radon-222 and benzo-5,6 flavone. (C14, C21). 482039
- synergism**
Experimental study of the cocarcinogenic effect of radon-222 and benzo-5,6 flavone. (C14, C21). 482039
- FLAVOR:**
meat
Meat flavour. (C43). 494369

FLAVOR MODEL:

- Generalization of the Glashow-Iliopoulos-Maiani mechanism:
 Horizontal and vertical flavor mixing. (A21, A11). 486043
 Quantum flavordynamics. (A21, A11). 493057
- baryons**
 The six-quark s-wave states. (A21). 478450
- cross sections**
 'Onium' new flavour identification. (A20, E16). 468001
- quarks**
 Quark-mixing with small angles. (A21). 460189
- renormalization**
 Conditions for renormalizability of quantum flavor dynamics. (A21). 464786
 Finite renormalization, flavor mixing, and weak decays. (A21, A11). 486034
 New anomaly in axial-vector ward identity. (A11). 459670
- reviews**
 Bag model of quark confinement. (A21, A11). 489817
- supersymmetry**
 Local supersymmetry and interactions. (A21, A11). 475517
- symmetry breaking**
 Flavour symmetry breaking and isovector parity-violating potentials. (A22). 489949
 Flavour symmetry breaking in antiquark distributions. (A21). 468132
- unitary symmetry**
 Infinite unitary group, quarks, unitary symmetry. (A21). 483677
- weak hadronic decay**
 Finite renormalization, flavor mixing, and weak decays. (A21, A11). 486034
- weak interactions**
 Weak interactions with six colored quarks. (A21). 460195
- weak neutral currents**
 Charmed quark. (A21; four-flavor quark model, GIM charm model). 486046

FLAWS:See *DEFECTS***FLAX PLANTS:**

- genetic radiation effects**
 Induced variations in quantitatively inherited traits in linseed (*Linum usitatissimum* L.). (C41). 463311
- root absorption**
 The competition of *Linum* with *Camelina* for minerals. 3. (C21, C41). 482090

FLIES:See also *CERATITIS CAPITATA*; *DACUS OLEAE*; *DROSOPHILA*; *FRUIT FLIES*; *GLOSSINA*

- oogenesis**
 Effects of gamma irradiation on the development of spermatogenesis and Oogenesis of the housefly *Musca domestica* L. (C14). 469666
- spermatogenesis**
 Effects of gamma irradiation on the development of spermatogenesis and Oogenesis of the housefly *Musca domestica* L. (C14). 469666

FLOATING NUCLEAR POWER PLANTS:See *OFFSHORE NUCLEAR POWER PLANTS***FLOODS:**

- environment**
 Environmental consequences of postulated plutonium releases from the Babcock and Wilcox Plant, Leechburg, Pennsylvania, as a result of severe natural phenomena. (C21, B33, B31, B32). 487301

FLOTATION:

- activation analysis**
 Experience gained upon industrial application of on-line activation analysis in flotation. (D22, B11). 482527

FLOW (FLUID):See *FLUID FLOW***FLOW BLOCKAGE:**

- LMFBR safety and sodium boiling. (C52, E35). 461221
- data processing**
 Application of a microprocessor-based distributed system to subassembly fault detection of LMFBR. (E24). 470592
- fast reactors**
 Local flow blockage experiments-6. (E35). [Data] 480707

FLOW MODELS:

- Evaluating nuclear power plant ventilation system adequacy in reducing airborne radioactivity exposure. (C52). 480082
 Multidomain multiphase fluid mechanics. (E11). 463520
 Use of an emulsion for gaseous diffusion study. (E11). 473625
- air filters**
 Evaluation of data from HEPA filter quality assurance testing stations. (C52). 480037
 Use of installed test cannisters for representative sampling of ventilation systems charcoal absorbers. (C52). 480118
- comparative evaluations**
 Effects of home ventilation systems on indoor radon-radon daughter levels. Final report. (B33; Comparison of air and timers, central blowers, and outside air ventilation on radioactivity levels in room air). [Data] 476497

FLOW RATE:

- heat transfer**
 Heat transfer during rewetting by bottom flooding. (C52). [Data] 473278
- loss of coolant**
 RELAP4 - analysis of data from loca experiments in the fix loop. Case D6-259, a bottom break experiment without dryout. (C52, E31). [Data] 480081
 RELAP4 analysis of data from loca experiments in the fix loop. Case F6-267, a pump trip experiment with dryout. (E52, E31). [Data] 480884

magnetic probes

- Process and device for measuring speed of flow and gas volume of a liquid metal flow. (E11, E42). 470302

FLOW REGULATORS:See also *VALVES*

- Temperature-dependent liquid metal flowrate control device. (E35; Patent). 488127

diagrams

- Improvements in fluid flow diverters. (E22). 491726

magnets

- Improvements in fluid flow diverters. (E22). 491726

performance testing

- MHD diffuser model test program. (A16). 489671

primary coolant circuits

- Vortex diode characteristics at high pressure ratios. (E33, E11). 477254

specifications

- MHD diffuser model test program. (A16). 489671

FLOW STRESS:**shear**

- Nonlinear effects of temperature on simple shear flows of heat conducting viscoelastic fluids. (A13). 467389

FLOWMETERS:**calibration**

- Drag-disc turbine transducer data evaluation methods for dynamic steam-water mass flow measurements. (E42, E32; PWR). 474161

gas flow

- Gas and flow detector. (E42). 466851

hall effect

- Contact-free sensor for vortice-separating flowmeters. (E42, E11). 482879

liquid flow

- Electromagnetic flow meter for electrically conducting liquid. (E42). 470992

liquid metals

- Electromagnetic flow meter for electrically conducting liquid. (E42). 470992

- Inductive flowmeter for electrically conductive media. (E42). 466850

mass transfer

- Gas and flow detector. (E42). 466851

performance

- Current capabilities of transient two-phase flow instruments. (C52, E31, E32, E11, E42; BWR; PWR). 487581

- Drag-disc turbine transducer data evaluation methods for dynamic steam-water mass flow measurements. (E42, E32; PWR). 474161

- Pitot tube and drag body measurements in transient steam-water flows. (C52, E32). 487479

positron sources

- Flowmeter using a radioactive positron emitting source without lead collimators. (E41, C31). 474084

pressure measurement

- Equipment for liquid metal pressure measurement. (E42). 482881

sodium

- Electric measuring instruments for sodium equipment at the Nuclear Research Institute, Rez. (E42). 463762

sound waves

- Disposition for the determination of the mass of gases flowing in pipelines. (E11). 466483

specifications

- Instrumentation for localized measurements in two-phase flow conditions. (E36, E42). 495042

- JAERI instrumented spool piece performance in two-phase flow. (E31, E32). 494934

- Liquid diode. (E42). 463757

- Mass flow rate measurements in two-phase mixtures with stagnation probes. (C52, E32; PWR). 491143

thermistors

- Device for monitoring the coolant flow rate in power plants. (E22). 487999

turbulent flow

- Method for the detection of turbulences in a flowing medium. (E42, E11). 466845

ultrasonic waves

- Method and device for measuring the flow velocity of media by means of ultrasonics. (E42). 466846

- FLUCTUATIONS:**
 (Stochastic variations)

spectral density

- Small-scale magnetic fluctuations inside the Macrotr tokamak. (A14). 485835

- FLUE GAS:**

cleaning

- Cleaning of stack gases from combustion of low level radioactive waste in Studsvik, Sweden. (E51). 480836

- FLUENCE (NEUTRON):**
 See *NEUTRON FLUENCE*

- FLUID FLOW:**
 See also *COMPRESSIBLE FLOW*; *COUETTE FLOW*; *CRITICAL FLOW*; *FILM FLOW*; *GAS FLOW*; *INCOMPRESSIBLE FLOW*; *KNUDSEN FLOW*; *LAMINAR FLOW*; *LIQUID FLOW*; *POTENTIAL FLOW*; *STEADY FLOW*; *SUPERSONIC FLOW*; *TURBULENCE FLOW*; *TWO-PHASE FLOW*; *UNSTEADY FLOW*; *VISCOUS FLOW*; *VORTEX FLOW*

- Technical fluid mechanics. (E11). 461489

control systems

- Variable orifice using an iris shutter. (E13; Patent). 470330

critical heat flux

- A generalized graphical method for predicting CHF in uniformly heated vertical tubes. (E11). 473622

- cylindrical configuration**
Flow in cylindrical channels with obstructions at high Reynolds numbers. (E11). 482552
- finite difference method**
MHD flows in the presence of a transverse magnetic field. (E11). 480341
- helmholtz instability**
Kelvin-Helmholtz-like instability of a shear layer subject to free boundary conditions. (A13). 477920
- isothermal processes**
Flow of a dipolar fluid between rotating coaxial disks. (E11). 473611
- magnetic fields**
The influence of an axial magnetic field on the stability of a fluid with uniform velocity. (A13). 492600
Point force in a stratified fluid in a cylinder under a magnetic field. (A13). 459836
- magnetohydrodynamics**
MHD flows in the presence of a transverse magnetic field. (E11). 480341
- mass transfer**
Mass transfer in three-phase fluidized beds. (E11). 470308
- mathematical models**
Solution flow prediction via computer models. (B31, C52). 472821
- measuring methods**
Flow measurement in main sodium pipes. (E35). [Data] 495002
Technetium-99m sulfur-colloid cutaneous lymphoscintigraphy in the management of truncal melanoma. (C62). 473462
- mechanical impedance**
Ice blockage of water intakes. (E22, C52). 477113
- mechanical structures**
Fluid-structure interactions in one-dimensional linear cases. (E11). 470306
- neutron activation analysis**
Method and apparatus for measuring underground fluid flow characteristics. (B31). 494207
- p codes**
Comparison of coolant flow predictions with those measured on a full-scale mockup of pebble bed reactor core. (E33). 480662
- reynolds number**
Flow in cylindrical channels with obstructions at high Reynolds numbers. (E11). 482552
- sodium**
Flow measurement in main sodium pipes. (E35). [Data] 495002
- spheres**
Non-Newtonian fluid flow in the neighbourhood of solid particles. (E11). [Data] 476894
- stability**
The influence of an axial magnetic field on the stability of a fluid with uniform velocity. (A13). 492600
Sufficient conditions for stability of rotating flows. (E11; Perfect conducting fluid with circular magnetic fields). 470309
- tracer techniques**
Application of radioactive tracers to processes on a large scale. (D24). 487813
- turbulent flow**
Experimental determination of probe-length requirements for studies of the turbulent wake behind a cylinder. (E42). 477446
- velocity**
Flow of a dipolar fluid between rotating coaxial disks. (E11). 473611
- viscosity**
Fluctuating flow of a viscoelastic fluid in a porous channel. (E11). 473610
Numerical investigations of flow of a viscoelastic fluid between rotating coaxial disks. (E11). 473612
- FLUID FUELED REACTORS:**
See also GAS FUELED REACTORS; MOLTEN SALT FUELED REACTORS; PLASMA CORE ASSEMBLY; PRNC-L-77 REACTOR
- FLUID MECHANICS:**
See also HYDRODYNAMICS; MAGNETOHYDRODYNAMICS
Technical fluid mechanics. (E11). 461489
- equations of motion**
Synge's equations of motion applied to a perfect fluid. (A11). 462085
- general relativity theory**
Synge's equations of motion applied to a perfect fluid. (A11). 462085
- mathematical models**
Hydraulic jumps in a partially filled rotating cylinder. (A13, A11, D11). 489018
- nonlinear problems**
A new approach to some nonlinear fluid dynamics problems. (A14). 474948
- turbulent flow**
Systematic modeling rules for Reynolds stress closures in free-shear layers. (A13). 485624
- two-phase flow**
Multidomain multiphase fluid mechanics. (E11). 463520
- FLUID POISON CONTROL:**
boric acid
Development of boron control of WWER type reactors. (E24). 463609
Injector for boric acid solution in nuclear power plant. (E24). 473820
- FLUIDIC CONTROL DEVICES:**
reactor safety
Digital integrated protection system. (C52, E24). 494431
- valves**
The potential of power fluidics for plant protection. (B16, E11). 472575
- FLUIDIC DEVICES:**
See also FLUIDIC CONTROL DEVICES
- pumps**
Fluidic pumps for toxic liquids. (E11, B16). 473624
- FLUIDIZED BEDS:**
mass transfer
Mass transfer in three-phase fluidized beds. (E11). 470308
- FLUIDIZED-BED COMBUSTION:**
aerosols
Aerosol sampling of an experimental fluidized bed coal combustor. (C52). 469943
- chemical effluents**
Aerosol sampling of an experimental stirred-bed Lurgi coal gasifier. (C52). 469948
Aerosol sampling of an experimental fluidized bed coal combustor. (C52). 469943
Inorganic constituents in an experimental fluidized bed coal combustor exhaust stream. (C52). 469976
Organic characterization of effluents from fluidized bed combustion of coals. (C52). 469918
- fly ash**
In vitro dissolution of fluidized bed coal combustion fly ash using instrumental neutron activation analysis. (B11). 468680
- gases**
Erosion/corrosion of turbine airfoil materials in the high-velocity effluent of a pressurized fluidized coal combustor. (B15). 486789
- FLUIDS:**
(Not for the concepts covered by BODY FLUIDS.)
See also AIR; COSMIC GASES; CRYOGENIC FLUIDS; GASES; IONIZED GASES; LIQUID CRYSTALS; LIQUID METALS; LIQUIDS; LORENTZ GAS; NATURAL GAS; SURFACE AIR; VAPORS; WATER VAPOR; WEAKLY IONIZED GASES
- classical mechanics**
A new theory of simple classical fluids; universality in the short range structure. (A13). 464208
- general relativity theory**
On symmetry properties of a charged liquid in general relativity theory. (A11). 467092
- hard-sphere model**
Monte Carlo calculation of the radial distribution function of quantum hard spheres at finite temperatures. (A11). 485377
- heat transfer**
Low Peclet number heat transfer for power law non-Newtonian fluid with heat generation. (E11; Peclet number; non-Newtonian). 487818
- lagrangian function**
Generalized lagrangian of ideal liquid and nonsingular cosmological model of space-time. (A15). 475429
- pairing energy**
Perturbation method for classical atomic fluids which have a repulsive pair potential. (A13). 477895
- perturbation theory**
Perturbation method for classical atomic fluids which have a repulsive pair potential. (A13). 477895
- phase transformations**
Gravity effects in fluids near the gas-liquid critical point. (A13). 485625
- proton transport**
Experimental studies of the acoustic signature of proton beams traversing fluid media. (E41, E16, A32). 466804
Recent acoustic results at Harvard. (A32, E41, A15). 468253
- statistical mechanics**
Kinetic theory of reacting fluid mixtures. I. The BBGKY hierarchy in arrangement channel quantum mechanics. (A13). 477888
Semiclassical statistical mechanics of fluids: Nonperturbative incorporation of quantum effects in classical many body models. (A13). 474893
Semiclassical statistical mechanics. (A11, A12). 485369
- wave functions**
Aspects of the kinetic theory of normal quantum fluids. (A17). 475460
- FLUORENE:**
biochemical reaction kinetics
Arylamidation and arylation by the carcinogen N-2-fluorenylacetylamide: a sensitive and rapid radiochemical assay. (C62; ¹⁴C tracer technique). [Data] 487688
- chemiluminescence**
The thermal decomposition of 3, 3'- (0, 0'-Biphenylene)-4-methoxy-1, 2-Dioxetane and 3, 3'- Diphenyl-4-methoxy-1, 2-Dioxetane. A concerted VS a diradical pathway. (A12). 485400
- FLUORESCENCE:**
iodine 127
Determination of the iodine content of the thyroid by means of fluorescence scans. (C63, C55, E41). 476818
- lifetime**
Conversion of phytochrome to its physiologically active (energized) form. (A12, A13). 485526
Use of synchrotron radiation for the measurement of fluorescence lifetimes with subpicosecond resolution. (E42). 488295
- photon-molecule collisions**
Two-photon excited fluorescence spectroscopy. (A10). 466992
- resonance**
Photon bunching and antibunching in resonance fluorescence. (A12). 481008
- FLUORESCENCE SPECTROSCOPY:**
Multiphotonic high resolution spectroscopy. (A12). 477717

- ascites tumor cells
Pulse cytofluorimetry study of UV fluorescence of tumor cells following exposure to gamma and neutron radiation. (C14). 466057
- cherenkov radiation
Analytical application of Cherenkov radiation Pt. 2. (D22). [Data] 480315
- data acquisition
Automated data handling of uranium analyses for the NURE program. Informal report. (B31, B11). 479600
- laser radiation
Fluorescence spectroscopy of C.W. and pulsed laser induced transient photoisomers. (B12); transient photoisomer of DODCI-3,3'-diethyl oxadiazocarbonyne. 472436
Laser excitation spectroscopy of the Cs₂ molecular band at 6270 Å. (A12). 477769
- optimization
Synchronous excitation method for increasing sensitivity in fluorimetry. (B11). 460370
- FLUORIDE VOLATILITY PROCESS:**
Dry reprocessing of irradiated nuclear fuels and device for transforming solids into gases at high temperature. (B16). 490514
- ruthenium compounds
Behavior of ruthenium in fluoride-volatility processes. (B16). 481768
- ruthenium fluorides
Behavior of ruthenium in fluoride-volatility processes. (4). (B16). 469031
- FLUORIDES:**
See also more specific entries as listed in the INIS Thesaurus.
- amino acids
The effect of fluoride on the cellular uptake and pool of amino acids. (C21). 479941
- chemical analysis
Environmental monitoring near industrial sites: brominated chemicals. Part II: appendix. Final report 19 Jul-16 Dec 77. (B11, C52). 475899
- chemical reactions
Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
- critical field
Influence of Fermi surface anisotropy on H/sub c2/(T). (A17, B22, B24). 475468
- environment
Terrestrial Ecology Section. (C52). [Data] 480073
- fermi level
Influence of Fermi surface anisotropy on H/sub c2/(T). (A17, B22, B24). 475468
- materials testing
Laser fusion project second annual report. (A14, B23). 464301
- monitoring
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). 490877
- spin-lattice relaxation
Nuclear spin-lattice relaxation and inner motion mechanism in alkali-haloid type crystals with dumbbell-like anions. (A13). 485610
- uptake
The effect of fluoride on the cellular uptake and pool of amino acids. (C21). 479941
- FLUORIMETRY:**
See FLUORESCENCE SPECTROSCOPY
- FLUORINATED ALIPHATIC HYDROCAR:**
See ORGANIC FLUORINE COMPOUNDS
- FLUORINATED HYDROCARBONS:**
See ORGANIC FLUORINE COMPOUNDS
- FLUORINATION:**
chemical radiation effects
Radiolysis of the LiF-BeF₂ system by prompt electrons. (B14). 479139
- FLUORINE:**
absorption spectra
Theoretical studies of the valence electronic states and the ¹Pi/sub u/reverse arrowX¹Σ⁺/sub g/ absorption spectrum of the F₂ molecule. (A12). [Data] 463958
Ultraviolet absorption by diatomic rare gas ions in E-beam excited plasmas. (A14). [Data] 464511
- activation analysis
Athens ¹ x ² NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
Harrisburg ¹ x ² NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- atom-atom collisions
Collisions of halogen (²P) and rare gas (¹S) atoms. (A12); Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets. [Data] 477708
Collisions of halogen (²P) and rare gas (¹S) atoms. (A12); Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets. [Data] 477708
Collisions of halogen (²P) and rare gas (¹S) atoms. (A12); Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets. [Data] 477708
Collisions of halogen (²P) and rare gas (¹S) atoms. (A12); Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets. [Data] 477708
Coupled-channel study of halogen (²P) + rare gas (¹S) scattering. (A12; partial wave, energy dependence, interference L-S coupling; differential cross sections). 485402
- Crossed molecular beam studies on the interaction potentials for F(²P) + Ne, Ar, Kr, (S). (A12). [Data] 463942
- atom-molecule collisions
Collisional ionization of electronically excited lithium. (A12). 477782
Detailed dynamics of collinear F+H₂ trajectories. (A12). [Data] 464002
- Multiple scattering theory. III. (A12). 483234
On the interweaving of partial cross sections of different parity (A12). 483156
Production of electronically-excited species by photoselection of pathways (POP). Third quarterly report, August 1, 1978 - October 31, 1978. (B12; F + HBr). 460535
Quantum mechanical study of F(²sub(1/2)) + H₂(j=0) quenching: the role of virtual ortho-para mixing. (A12). 488929
Quantum mechanics of electronic-rotational energy transfer in F(²P)+H₂ collisions. (A12). 467346
Quantum resonance structure in the three-dimensional F+H₂ reaction. (A12). 483211
- chemical reaction kinetics
Accuracy of trajectory calculations and transition state theory for thermal rate constants of atom transfer reactions. (B12). 460537
- chemical reaction yield
Comparison of quasi-classical, transition state theory, and quantum calculations of rate constants and activation energies for the collinear reaction X + F₂ → XF + F (X = Mu, H, D, T). (B13). 460547
- chemical reactions
Comparison of quasi-classical, transition state theory, and quantum calculations of rate constants and activation energies for the collinear reaction X + F₂ → XF + F (X = Mu, H, D, T). (B13). 460547
Exact quantum mechanical transition state theory. 1. An overview. (B12). 460485
- Frank-Condon factors in studies of dynamics of chemical reactions. V. Simple construction of quadiabatic potential energy surfaces and numerical evaluation of Franck-Condon integrals. (B12). [Data] 465420
- Frank-Condon theory of chemical dynamics. VI. Angular distributions of reaction products. (B12; H + H₂ → H₂ + H, H₂ + F-HF + H, H + Cl₂ → HCl + Cl). 486676
- Nuclear methods in chemical kinetics. Technical progress report, April 1, 1978 - March 31, 1979. (B12). 460449
- Quantitative comparison between detailed (state selected) relative rate data and averaged (thermal) absolute rate data for complex forming reactions. (B12). 462735
- Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- Tunnelling in collinear light-heavy-heavy reactions. (B12). 472435
- collisions
Molecular beam study of the kinetics of the fluorine-uranium dioxide reaction. (A12, B12). [Data] 477781
- dissociation
Halogen recombination: dissociation reactions. Current status. (B12). 460445
- electronic structure
Atomic coreless Hartree-Fock pseudopotential for atoms Li through Ne. (A17). [Data] 464736
- energy spectra
An m-representation approach to atomic structure: application to C I, N II, O III, F IV and Ne V. (A12). 471365
- excited states
Theoretical studies of the valence electronic states and the ¹Pi/sub u/reverse arrowX¹Σ⁺/sub g/ absorption spectrum of the F₂ molecule. (A12). [Data] 463958
- fuel cans
Fluorine concentration profile determination in MAGNOX reactor fuel canning material. (B11). [Data] 472356
- heavy ion reactions
Tables of light-fragment inclusive cross sections in relativistic heavy ion collisions. Part I. C + C, C + Pb, Ne + NaF, Ne + Cu, Ne + Pb → π⁺, p, d, t, ³He; E/sub BEAM/ = 800 MeV/A. (A33, A34; 800 MeV/A). [Data] 478653
- ion-molecule collisions
Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
Reactions of ions with atomic and molecular free radicals. Progress report, May 1, 1978 - April 30, 1979. (A12; Summaries of research activities at Univ. of Minnesota). 477744
- materials handling
Some considerations in the handling of fluorine and the chlorine fluorides. (B12, C52). 493589
- neutron activation analysis
Determination of fluorine in steel making slags by 14 MeV neutron activation analysis. (B11). 475871
Determination of fluorine in glasses by cyclic activation analysis using a californium-252 neutron source. (B11). 484010
Use of a small-sized deuteron accelerator for the neutron-activation determination of fluorine. (B11). 486490
- nuclear reaction analysis
Microanalysis of fluorine in microcracked chromium plate by proton induced prompt photon emission. (B11, B21). 490303
Nuclear and radiochemical techniques in chemical analysis. Progress report, August 1, 1977 - July 31, 1978. (B11, A34; Chemistry Dept., Brooklyn College, CUNY). 481628
The role of nuclear methods in the study of surface compositions. Their use in the Community Bureau of Reference (BCR). Project on 'RMs for non-metals in non-ferrous metals'. (B11). 490307
- oscillator strengths
An m-representation approach to atomic structure: application to C I, N II, O III, F IV and Ne V. (A12). 471365

- phase diagrams**
The U-S-F system. (B13). 490464
- photolysis**
Electron spin resonance spectra of the $^{14}\text{NF}_3^+$ and $^{15}\text{NF}_3^+$ radical cations. (B14, B12; Gamma radiation). 472513
- quantitative chemical analysis**
On the use of low energy tritons and protons for dosing carbon, oxygen and fluorine on metals surface. (B11). 483951
- quantity ratio**
Microanalysis of fluorine in microcracked chromium plate by proton induced prompt photon emission. (B11, B21). 490303
- radiolysis**
Electron spin resonance spectra of the $^{14}\text{NF}_3^+$ and $^{15}\text{NF}_3^+$ radical cations. (B14, B12; Gamma radiation). 472513
- recombination**
Halogen recombination: dissociation reactions. Current status. (B12). 460445
- FLUORINE CHLORIDES:**
See **CHLORINE FLUORIDES**
- FLUORINE COMPOUNDS:**
See also more specific entries as listed in the *INIS Thesaurus*.
- chemical reaction yield**
Paramagnetic oxides of nitrogen observed in a sulfur hexafluoride matrix. (B14). [Data] 472534
- ion-molecule collisions**
Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
- lattice parameters**
Cluster-Bethe-Lattice study of a planar antiferromagnet: Rb_2NiF_4 . (A13). [Data] 481085
- magnons**
Cluster-Bethe-Lattice study of a planar antiferromagnet: Rb_2NiF_4 . (A13). [Data] 481085
- physical radiation effects**
Electron spin resonance study of hydrogen atoms trapped in ammonium fluoroberyllate. (A13). 464196
- potential energy**
Valence bond diatomics-in-molecules method. II. Application to the valence states of $\text{FH}_2/\text{sup } a'$. (A12). 488798
- FLUORINE FLUORIDES:**
See **FLUORINE**
- FLUORINE IONS:**
- collisions**
Cu K x-ray production as a function of projectile atomic number, energy, and incident charge state. (A12). 485448
Projectile-charge-state dependence of target L-shell ionization by 1.86-MeV/amu fluorine and silicon ions and 1.8-MeV/amu chlorine ions. (A12). 477786
Target and projectile cross sections for F ions on Ti, V, Cr, Fe, and Co: 1.7 MeV/amu. (A12). 488896
X-ray production and electron transfer cross sections for 0.4 to 2.2 MeV/amu N, O, and F ions on Al. (A12; Fluorescence yield, cross sections, x-ray yields). [Data] 485452
- inner-shell ionization**
Theoretical lifetimes and fluorescence yields for multiply-ionized fluorine. (A12; Configuration interaction, intermediate coupling scheme, tables). [Data] 485542
- ion implantation**
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
- ion-atom collisions**
Comparison of K-shell ionization cross sections of Si in solid and gas targets for F/sup q/+ + Si collisions ($q < 4-9$) at 1 and 2 MeV/amu. (A12). 485538
Double K-shell electron capture for ion-atom collisions at intermediate energies. (A12). 477775
X-ray production by electron excitation, ionization, and capture for F/sup q/+ ($q < 1-9$) ions in collisions with a He gas target. (A12). 485537
- positron-ion collisions**
A comparison of the positron energy levels of $[\text{F}^-;e^-]$ and $[\text{CN}^-;e^-]$ with the Rydberg levels of Na and NO. (A12). 492540
- FLUORINE ISOTOPES:**
See also **FLUORINE 17**; **FLUORINE 18**; **FLUORINE 19**; **FLUORINE 20**
- FLUORINE 17:**
- beta-plus decay**
Exchange corrections to the axial vector decay of ^{15}O and ^{17}F . (A33). 478602
- energy levels**
Spin of the 14.174 MeV $T = 3/2$ level in ^{17}F . (A34). 486362
- excited states**
Some studies of $T = 3/2$ states in ^{17}F . (A34). 483893
- FLUORINE 18:**
- cat scanning**
Investigation of [^{18}F]2-fluoro-2-deoxyglucose for the measure of myocardial glucose metabolism. (C62, C21, C31). 470149
- energy levels**
 $\text{O}^+ + 1^+ \rightarrow \text{O}^+ + \text{O}^+$ spin-parity configuration via $^{16}\text{O}(\text{d vector}, \alpha)^{16}\text{N}$ reaction. (A34; 5.98 to 7.00 MeV, differential cross sections, vector and tensor analyzing power). [Data] 478713
- isotope production**
"Small" accelerator, radionuclide and radiopharmaceutical production. (E16, B13). 470409
Production of ^{18}F by α -particle bombardment of SiO_2 . (D13). [Data] 470226
Spallation of aluminum by 300 GeV protons. (A34). 475822
- nuclear structure**
Simulation of the Hartree-Fock field by one-body operators for ^{18}O and ^{18}F . (A34). 468566
- production**
F-18 cyclotron production methods. (D13). [Data] 494657
- radiochemistry**
[^{18}F]-labeled 3-deoxy-3-fluoro-D-glucose: synthesis and preliminary biodistribution data. (B13, C21). 468927
Synthesis and kinetics of [^{18}F]4'-fluoroantipyrine in normal mice. (B13, C21, C62). 468920
- radiopharmaceuticals**
An improved synthesis of ^{18}F -5-fluorouracil. (B13). 486729
Investigation of [^{18}F]2-fluoro-2-deoxyglucose for the measure of myocardial glucose metabolism. (C62, C21, C31). 470149
- retention**
Studies of skeletal tracer kinetics. I. Digital-computer solution of a five-compartment model of [^{18}F] fluoride kinetics in humans. (C21, C62). 469740
- scintiscanning**
[^{18}F]-labeled 3-deoxy-3-fluoro-D-glucose: synthesis and preliminary biodistribution data. (B13, C21). 468927
Studies of skeletal tracer kinetics. I. Digital-computer solution of a five-compartment model of [^{18}F] fluoride kinetics in humans. (C21, C62). 469740
Synthesis and kinetics of [^{18}F]4'-fluoroantipyrine in normal mice. (B13, C21, C62). 468920
- solvent extraction**
Production of ^{18}F by α -particle bombardment of SiO_2 . (D13). [Data] 470226
- FLUORINE 19:**
- energy-level transitions**
Quest for neutral-current-enhanced parity mixing in ^{18}F . (A34). [Data] 478745
- high spin states**
Positive-parity alpha clusters in ^{19}F . (A34). [Data] 462632
- level widths**
Positive-parity alpha clusters in ^{19}F . (A34). [Data] 462632
- neutron reactions**
Average cross-sections for (n,p) and (n, α) reactions on ^{19}F and ^{23}Na in a fission neutron spectrum. (A34). [Data] 468449
- parity**
Parity of $^{19}\text{F}(5.10)$ and $^{19}\text{Ne}(5.09)$. (A34). 475806
- polarization**
Thermal coupling in low fields between the nuclear and electronic spins in Tm^{2+} doped CaF_2 . (A13). 471578
- spin-lattice relaxation**
Spin-lattice relaxation of ^{19}F and magnetic couplings in rare-earth fluorides. (A13). [Data] 474895
- FLUORINE 19 REACTIONS:**
- fission**
Fission following transfer to ^{232}Th at energies below the Coulomb barrier. (A34). [Data] 465175
- indium 115 target**
 γ -multiplicities in (HI, xny)-reactions. (A34). 486387
- transfer reactions**
Fission following transfer to ^{232}Th at energies below the Coulomb barrier. (A34). [Data] 465175
- FLUORINE 19 TARGET:**
- alpha reactions**
(α, np) quasifree proton knockout reaction on ^3H , ^6Li , and ^{19}F . (A34; 140 MeV). 486429
- carbon 12 reactions**
Analyses of fusion reaction in light nuclei systems using various potentials. (A33). 475761
- cross sections**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ^7Be and ^{11}C from targets with masses up to 40. (A33). 481502
- deuteron reactions**
The ($\text{d}, ^7\text{Li}$) and ($\text{d}, ^7\text{Be}$) reactions on ^{19}F nuclei. (A34). 493414
Differential cross sections of the ($\text{d}, ^8\text{Be}$) reaction on ^{19}F nuclei. (A34). 493446
- lithium 6 reactions**
 α -transfer spectroscopic factors in ^{23}Na . (A33). [Data] 464970
- photonuclear reactions**
Photodesintegration of light and medium-weight nuclei at intermediate energies-IV photoproduction of ^7Be and ^{11}C from targets with masses up to 40. (A33). 481502
- proton reactions**
Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
The use of molecular hydrogen ion beams in prompt nuclear reaction analysis. (B11). 468652
- FLUORINE 20:**
- beta-minus decay**
Allowed β -transitions, weak magnetism and nuclear structure in light nuclei. (A33). 468274
- second-class currents**
Search for second-class current. (A34). 465117
- FLUORITE:**
- activation analysis**
Application of activation analysis to study of coexistent mineral polymorphism according to lanthanoid composition features. (D22). 470272
- neutron activation analysis**
Instrumental neutron activation analysis of fluorite by means of short activation. (B11). [Data] 473272
- neutron-gamma logging**
Assessment of the feasibility of elemental analysis by neutron activation well-logging. (B31). 465747

- order-disorder transformations**
On specific features of ordering of solid solutions on the basis of fluorite. (B12). 475918
- physical radiation effects**
brace 100 brace faceted anion voids in electron irradiated fluorite. (B25). 469428
- FLUOROD:**
See *RPL DOSEMETERS*
- FLUOROFORM:**
deuterium compounds
IR photolysis of CDF_3 : a study in kinetics of multiple-photon dissociation with applications to deuterium separation. (B12). 490352
- photolysis**
IR photolysis of CDF_3 : a study in kinetics of multiple-photon dissociation with applications to deuterium separation. (B12). 490352
- FLUOROSCOPY:**
image intensifiers
Image intensifier tomofluorography. (E41, C61). 463738
- radiation doses**
Absorbed doses to patients and personnel from endoscopic retrograde cholangiopancreatographic (ERCP) examinations. (C15, C61). 494313
- Variable aperture fluoroscopic unit for reduced patient exposure. (C15, C60, D14, E42). 469721
- radiation hazards**
Simple eye protection shield for special procedures. (C15, C60, C54). 469730
- radiation protection**
Diagnostic X-ray survey procedures for fluoroscopic installations. (C55). [Data] 461349
- Measurement of filtration in fluoroscopic systems. (C55, E41). [Data] 473314
- Radiation protection in fluoroscopy with an image intensifier. (C54). 491221
- side effects**
Risk of breast cancer following low-dose radiation exposure. (C15, C61, C63). 490984
- tomography**
Image intensifier tomofluorography. (E41, C61). 463738
- FLUOROURACILS:**
fluorine 18
An improved synthesis of ^{18}F -5-fluorouracil. (B13). 486729
- radiosensitivity**
Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998
- synthesis**
Synthesis of [^{18}F]-5-fluorouridine (F-18-5-FUR) as a probe for measuring RNA synthesis and tumor growth rates in vivo. (C31). 487324
- FLUORS:**
See *PHOSPHORS*
- FLUE INSTABILITY:**
Stability properties of a field-reversed ion layer in a background plasma. (A14). 485824
- Velocity space ring-plasma instability, magnetized, Part II: Simulation. (A14). 485762
- FLUX (COSMIC RAY):**
See *COSMIC RAY FLUX*
- FLUX (MAGNETIC):**
See *MAGNETIC FLUX*
- FLUX (NEUTRON):**
See *NEUTRON FLUX*
- FLUX (RADIATION):**
See *RADIATION FLUX*
- FLUX CORED ARC WELDING:**
See *ARC WELDING*
- FLUX JUMPS:**
See *MAGNETIC FLUX*
- FLUX PINNING:**
See *MAGNETIC FLUX*
- FLUXMETERS:**
See also *SQUID DEVICES*
Flux meter for field gradient with pendulum. (E16). 482620
- hall effect**
A digital teslameter. (E42). 470984
- FLUXOIDS:**
See *MAGNETIC FLUX*
- FLY ASH:**
activation analysis
In vitro dissolution of fluidized bed coal combustion fly ash using instrumental neutron activation analysis. (B11). 468680
- adsorption**
Adsorption of moisture by fly ash. (C52). 469957
- air pollution**
Oxidation of SO_2 on the surface of fly ash particles under low relative humidity conditions. (C52). [Data] 466314
- natural radioactivity**
Radioactive substances in fly ash from coal-fired power plants. (C52). [Data] 473236
- nuclear reaction analysis**
Application of the thermal (n,γ) reaction to elemental analysis. (B11). 468630
- radiation monitoring**
Analysis for radionuclides in SRC and coal combustion samples. Final report Nov 77-Jul 78. (B11). 486523
- solubility**
In vitro dissolution of fluidized bed coal combustion fly ash using instrumental neutron activation analysis. (B11). 468680
- waste disposal**
Disposal and reclamation of southwestern coal and uranium wastes. (B31, B16, E52). 494217
- FLYING SPOT DIGITIZERS:**
(Mechanical flying spot digitizers; see also CATHODE RAY TUBE DIGITIZERS.)
- g codes**
Geometric test of HPD scanning device (GOTHIER program). (E42, F51). 495150
- testing**
Geometric test of HPD scanning device (GOTHIER program). (E42, F51). 495150
- FLYWHEELS:**
energy storage
The use of photodiodes for the detection and spectrometry of nuclear radiation. (A16). 483596
- FOAMS:**
impregnation
Low-density, salt-loaded foams. (B12; RbF). 460520
- FOCK METHOD:**
See *HARTREE-FOCK METHOD*
- FOCK SELF-CONSISTENT FIELD:**
See *HARTREE-FOCK METHOD*
- FODDER:**
See *ANIMAL FEEDS*
- FOG (METEOROLOGICAL):**
See *ATMOSPHERIC PRECIPITATIONS*
- FOILS:**
(Thinner than plates or sheets.)
- analytical solution**
Self-similar power-driven expansion into vacuum. (A14). 475006
- charged-particle transport**
Alignment, orientation, and the beam-foil interaction. (A12, A32). 471387
- neutron transport**
Several good methods for computing the distortion factor relevant to a foil placed in an exponentially varying flux. (A31; C/sub N/ and integral transform methods). 478573
- thickness gages**
Thickness measurements of thin foils using alpha particles from ^{148}Gd and ^{241}Am . (D22). 470269
- FOLDY-WOUTHUYSEN TRANSFORM:**
unitarity
Question of unitarity of Foldy-Wouthuysen transformations and Volkov states in two-component forms. (A11). 463901
- FOLIAGE:**
See *LEAVES*
- FOLIC ACID:**
chemical bonds
Studies on folate binding and a radioassay for serum and whole-blood folate using goat milk as binding agent. (C45). 487368
- radioassay**
Simultaneous radioassay of folate and vitamin B₁₂. (B11, C31; Patent). 478817
- FOLINIC ACID:**
See *CITROVORUM FACTOR*
- FOLLICLE STIMULATING HORMONE:**
See *FSH*
- FOOD:**
See also more specific entries as listed in the *INIS Thesaurus*.
- chemical analysis**
Analyses of quality control samples at EML and contractor laboratories during 1978. (B11, C22, B32, B33). [Data] 475878
- contamination**
Environmental surveillance at Hanford for CY-1978. (C21, B33, B32). [Data] 487290
- Individual radiation doses due to atmospheric diffusion of cesium-137 in connection with land transport of radioactive material. (B33, C43). 490897
- Protection against radioactive contamination of foods and agricultural products. (C43). 473150
- decontamination**
Protection against radioactive contamination of foods and agricultural products. (C43). 473150
- humidity**
NMR investigation into water content of foodstuffs. (B11). 481629
- irradiation**
Commercial food irradiation in USA looking up. (C43). 482138
- Interim report on food irradiation research and development. 463835
- Progress in food irradiation: Brazil. (C43). 482143
- Progress in food irradiation: Italy. (C43). 482142
- Progress in food irradiation: The Netherlands. (C43, C55). 482152
- Progress report for 1975-1977 of the Biochemistry and Food Technology Division. (C43). 482144
- Radurisation of ginger rhizomes to increase shelf lives. (C43). 484624
- monitoring**
Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). 479676
- neutron activation analysis**
Activation analysis of copper in foodstuffs after their partial destruction. (B11). 462662
- preservation**
Irradiation of foods. (C43, C11, C12). 461142

- radiation monitoring**
Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). 479676
- radioactivity**
Cesium-137 in various Chicago foods. (C22). [Data] 479971
Environmental radioactivity in foods. (C22, C52). 461117
Radioactivity of foods from NPP Kozloduj environs during the operational period. (C52). 466309
Survey of radioactivity in imported foods for the period 1965-1973. (C22). 463250
Transformation factors for doses in connection with internal doses obtained via inhalation or via eating of different articles of food. (C55). 480187
- radioimmunoassay**
Use of RIA in life analyses, illustrated by the example of diethyl stilbestriol. (C61, B12). 461385
- wholesomeness**
Commercial food irradiation in USA looking up. (C43). 482138
- FOOD AND DRUG ADMINISTRATION:**
See US FDA
- FOOD CHAINS:**
- contamination**
Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
Chesapeake Bay baseline data acquisition, toxics in the Chesapeake Bay. Final preliminary report, 1946-78. (B32, C52). 494222
Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). [Data] 494348
Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). [Data] 473060
Environmental radioiodine monitoring to control exposure expected from containment release accidents. Final report. (C22, C21, C52; Adult human thyroid dose commitments from ¹³¹I-contaminated forage-cow-milk-man food chain). [Data] 476625
Hydrocarbon studies in Puget Sound and off the Washington coast. Progress report, March 1977 - February 1978. (C52, B32). 487435
Hydrocarbon studies in Puget Sound and off the Washington coast. Progress report, March 1978 - February 1979. (C52, B32). 487436
Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
Progress report on a study of contamination of the human food chain by uranium mill tailings piles. (B31; ²³⁰Th, ²²⁸Ra, ²¹⁰Pb, ²¹⁰Po). 479597
Transfer of tritium released by nuclear facilities to the food supply. (C22). 491054
Uptake and distribution of gamma-emitting activation products ⁵⁹Fe, ⁵⁸Co, ⁵⁴Mn and ⁶⁵Zn in plants. (C21). 494329
- radionuclide kinetics**
Evaluation of uncertainties in radioecological models. (C22, C21, C52; Statistical analysis of selected input parameters to determine source of uncertainties). 469808
- radionuclide migration**
Biological transport of radionuclides at low-level waste storage sites. Annual report, October 1, 1977 - September 30, 1978. (E52, B31, C22). 477484
Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). 473111
Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). [Data] 494348
Distribution of tritium in a chronically contaminated lake. (C22, C21; White Oak Lake in Oak Ridge Reservation). 461116
Food chain transport of ²¹⁰Pb resulting from uranium milling activities. (C22, C21, C52). [Data] 473109
Transfer coefficients for terrestrial foodchain: their derivation and limitations. (C22, C21). 487316
Transfer factors for assessing the dose from radionuclides in agricultural products. (C22, C21). [Data] 491059
Transuranic element transport in agricultural systems (soil to food chain transfer of nuclear fuel cycle radionuclides). Quarterly progress report. (C22, B31, B11). 491064
- transuranium elements**
Transuranium radionuclides in the foodchains. (C43, C55). 463324
- FOOD IRRADIATION (RADIOFASTER):**
See RADICIDATION
- FOOD IRRADIATION (RADIOPRESERV):**
See RADURIZATION
- FOOD IRRADIATION (RADIOSTERIL):**
See RADAPPERTIZATION
- FOODSTUFFS:**
See FOOD
- FORAGE:**
- radioactivity**
Environmental radioiodine monitoring to control exposure expected from containment release accidents. Final report. (C22, C21, C52; Adult human thyroid dose commitments from ¹³¹I-contaminated forage-cow-milk-man food chain). 476625
Transfer factors for assessing the dose from radionuclides in agricultural products. (C22, C21). 491059
- FORBIDDEN TRANSITIONS:**
Core polarization and mesonic effects manifested by 1-forbidden M1 transitions. (A33). 486186
- reviews**
Forbidden transitions in one- and two-electron atoms. (A12). 488868
- FORBUSH DECREASE:**
- cosmic radiation**
The September 1977 cosmic ray storm observed in a wide rigidity range. (A15). 475264
- FORBUSH DEPRESSION:**
See FORBUSH DECREASE
- FORBUSH EVENT:**
See FORBUSH DECREASE
- FORCED CONVECTION:**
(Heat transfer by forced convection.)
- critical heat flux**
Generalized correlations of critical heat flux for the forced convection boiling in vertical uniformly heated annuli. (E11). 473616
A generalized correlation of critical heat flux for the forced convection boiling in vertical uniformly heated round tubes. (E11). 463517
Upper limit of CHF in the saturated forced convection boiling on a heated disk with a small impinging jet. (E11). 491468
- pulsations**
Pulsed convection. (E11). 491460
- transition boiling**
Measurement of transition boiling boundaries in forced convective flow. (E11). 463519
- turbulent flow**
An introduction to heat transfer. (E11). 491462
- FOREST LITTER:**
(Natural organic debris on the forest floor.)
- minerals**
Cooling tower drift studies at the Paducah, Kentucky Gaseous Diffusion Plant. (C52; Transport of drift-derived chromium in terrestrial ecosystems). 461304
- FORESTS:**
- air pollution**
Calculating wind profiles above a pine forest. (B31, B33). 479627
- energy balance**
Energy balance of a pine forest. (C52). [Data] 480119
- isotope dating**
Radiocarbon measurements on submerged forest floating chronologies. (B11). [Data] 472324
- FORM FACTORS:**
See also ELECTROMAGNETIC FORM FACTORS
- aluminum alloys**
Determination of order parameter and atomic scattering factor in FeAl from thickness fringes in electron micrographs. (A13). [Data] 474847
- asymptotic solutions**
Asymptotic behaviour of the form factors. (A11). 474443
- field operators**
Asymptotic behaviour of the form factors. (A11). 474443
- iron alloys**
Determination of order parameter and atomic scattering factor in FeAl from thickness fringes in electron micrographs. (A13). [Data] 474847
- nucleons**
On the isovector form factors of the nucleon in meson theory. (A21). 468073
- FORMALDEHYDE:**
- absorption spectra**
Observations of the 5-GHz H₂CO absorption in directions towards the Galactic Centre region. (A15). 493007
- chemical radiation effects**
Radiation thermal transformations of formaldehyde in alcohols. (B14). 468984
- chemical reactions**
Fluorescence emission spectroscopy, radiative lifetimes, and vibrational relaxation rates of the 4⁰ and 4¹ single vibronic levels of D₂CO and HD₂CO (A ¹A₂). (B12, B11). [Data] 486660
- cosmic dust**
Formaldehyde in Rho Ophiuchi. (A15). 481274
A survey of formaldehyde in the Orion dust cloud L1641. (A15). 481265
- cosmochemistry**
Detection of the 3₁₂→2₁₁ transition of interstellar formaldehyde at 1.3 millimeters. (A15). 467808
Isotopic ratios from 6.8 centimeter observations of H₂C¹⁸O. (A15). 464674
Molecular line studies of dark clouds with associated young stellar objects. (A15). 464632
- dissociation**
Photodissociation of formaldehyde: Potential energy surface features. (B12). 486603
- energy-level transitions**
Detection of the 3₁₂→2₁₁ transition of interstellar formaldehyde at 1.3 millimeters. (A15). 467808
- fluorescence**
Collisionless nonradiative decay rates of single rotational levels of S₁ formaldehyde. (B12). 486683
- isotope ratio**
The ¹²C/¹³C abundance ratio derived from H₂CO observations of southern sources. (A15). 492895
- milky way**
Observations of formaldehyde along the galactic plane. (A15). [Data] 462440
- nmr spectra**
NMR study of the phenol-formaldehyde-water-methanol system. (B11, A13). 462653

- photochemistry**
Photodissociation of formaldehyde: Potential energy surface features. (B12). 486603
- rotational states**
Collisionless nonradiative decay rates of single rotational levels of S₁ formaldehyde. (B12). 486683
- spectra**
The detection of formaldehyde in M31. (A15). [Data] 462431
- FORMALIN:**
See FORMALDEHYDE
- FORMALITH:**
See FORMALDEHYDE
- FORMATES:**
aqueous solutions
Investigation of aqueous-salt systems containing lithium, rubidium and cesium formates. (B12; Systems: HCOOLi-HCOOMe-²O (Me-Na, K, Rb, Cs)). 479064
- chemical radiation effects**
Electron spin resonance studies of γ-irradiated simple formates. (B14). 462792
- chemical reaction yield**
Photochemical generation of superoxide radicals in aqueous solutions. (B12). 462709
- chemical reactions**
Secondary deuterium isotope effects for certain acyl transfer reactions of phenyl formates. (B12). 472425
- electron spin resonance**
Electron spin resonance studies of γ-irradiated simple formates. (B14). 462792
- neutron diffraction**
Fluctuations in two-dimensional six-vertex systems. (A13, B24). 489082
- photolysis**
Photochemical generation of superoxide radicals in aqueous solutions. (B12). 462709
- FORMIC ACID:**
dimers
Ab initio MO study on β- decay. Effect of β- decay on hydrogen bonding in mono-tritiated formic acid dimer. (B12). 484028
- radiolysis**
The efficiency of radical scavenging in gamma irradiated frozen systems: formic acid - molybdates. (B14). [Data] 468951
- solvation**
Radiation chemistry of system: formic acid-molybdates. (B14). 479187
- tritium compounds**
Solvate-formation in the HCOOH-Rb(Cs)PF₆-H₂O systems. (B12). 465378
- Ab initio MO study on β- decay. Effect of β- decay on hydrogen bonding in mono-tritiated formic acid dimer. (B12). 484028**
- FORMIC ALDEHYDE:**
See FORMALDEHYDE
- FORMOL:**
See FORMALDEHYDE
- FORMYL RADICALS:**
cosmochemistry
Detection of HC¹⁸O⁺ in Sagittarius B2. (A15). 464578
- FORMYLPTEROIC ACID:**
See FOLIC ACID
- FORSCHUNGSREAKTOR GEESTHACHT-1:**
See FRG-1 REACTOR
- FORSCHUNGSREAKTOR GEESTHACHT-2:**
See FRG-2 REACTOR
- FORSMARK-1 REACTOR:**
radiation doses
Atmospheric diffusion and effective doses around the Forsmark-1 reactor in Sweden in normal operation as well as at a reactor accident. (C52). 480085
- FORSMARK-3 REACTOR:**
reactor safety
Reactor safety study applied to the Forsmark 3 Power Plant. (C52). 469908
- FORT SHEVCHENKO REACTOR:**
See BN-350 REACTOR
- FORT ST. VRAIN REACTOR:**
See VRAIN REACTOR
- FOSSIL FUELS:**
See also ANTHRACITE; COAL; LIGNITE; NATURAL GAS; PETROLEUM; SHALE OIL
- environment**
Ecosystem Studies Program. (C52). 480160
- environmental impact statement**
Environmental Impacts Program. (B33, B32). [Data] 479702
- environmental impacts**
Environmental Impacts Program. (B33, B32). [Data] 479702
- forecasting**
A nuclear perspective on energy. (F11, C52). 461995
- well logging**
Extending the range of investigation of borehole electrical measurements. (B31, D22). 460843
- FOSSIL-FUEL POWER PLANTS:**
availability
Availability and utilisation of power stations. (F11). 488398
- chemical effluents**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- concretes**
Comparative analysis of structural concrete Quality Assurance practices on nine nuclear and three fossil fuel power plant construction projects. Final summary report. (B24, E30). 479527
- cost**
CONCEPT-5 user's manual. (F11, E31, E32; Power plant costs). 461991
- cost benefit analysis**
Evaluation of uncertainties in benefit-cost studies of electrical power plants. II. Development and application of a procedure for quantifying environmental uncertainties of a nuclear power plant. Final report. (F11). 480910
- dose rates**
Radiation exposure in the vicinity of nuclear power plants. (C52, C55). 476674
- economics**
Procedure for estimating nonfuel operation and maintenance costs for large steam-electric power plants. (F11). 461996
- emission**
Total generating costs: coal and nuclear plants. (F11). 474338
- environment**
Dry deposition of atmospheric ozone. (C52). 480048
- environmental exposure pathway**
Air impact. (C52). 494391
- environmental impacts**
Fuel cycles for electric power generation. (C22, C50). 487317
- environmental impact from nuclear systems. (C52, C22). 487423**
- environmental impacts**
Energy and electric power. (C52). [Data] 494386
- environmental impacts**
Nuclear and thermal power plants and the environment. (C52). 484668
- Problems linked to the long dated development of electricity production. Pt.2. Nuclear and classical power plants. (F11, C52). 471102**
- fuel cycle**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- Fuel cycles for electric power generation. (C22, C50). 487317**
- Fuel supply investment cost: coal and nuclear. Commercial electric power cost studies (6). (F12). 488418**
- health hazards**
Burning coal causes cancer too. (C52). 469980
- Hazards from radioactive waste in perspective. (C54, C21). 473286**
- Pollution, environmental and health hazards of fossil fuels. (F11). 482937**
- investment**
Fuel supply investment cost: coal and nuclear. Commercial electric power cost studies (6). (F12). 488418
- maintenance**
Procedure for estimating nonfuel operation and maintenance costs for large steam-electric power plants. (F11). 461996
- multiplexers**
Functional requirements, availability and cost analyses for remote multiplexing in power plants. (E24). 466633
- operation**
Procedure for estimating nonfuel operation and maintenance costs for large steam-electric power plants. (F11). 461996
- pipes**
Evaluation of mechanized pipe welding. Final report. (E22). 477121
- power generation**
Power in Ontario. (F11, E34). 461989
- radon 222**
Annual rate of release of radon to the atmosphere as a result of coal combustion in the United Kingdom. (C52). 480025
- reinforced concrete**
Comparative analysis of structural concrete Quality Assurance practices on nine nuclear and three fossil fuel power plant construction projects. Final summary report. (B24, E30). 479527
- risk analysis**
Comparison of gaseous effluent standards for nuclear and fossil fuel power production facilities. (F23, C52, B33). 474364
- site selection**
Modeling future power plant location patterns. Final report. (C52, C50; Forecasts of power plant siting possibilities in mid-Atlantic and central regions in year 2000). [Data] 491141
- Site selection technique for nuclear and fossil power plants. (C52). 473215**
- sociology**
Mitigating community impacts of energy development: some examples for coal and nuclear generating plants in the U.S. (E31). 488047
- thermal effluents**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- FOUNDATIONS:**
construction
Foundation block for turbo-generator of Rajasthan atomic power station. (E13). 482572
- ground water**
Ground water protection near nuclear reactors. (E32). 482765
- mechanical structures**
Spring rigidities and damping coefficients for viscoelastic foundation with lamellar bottom pressure distribution. (E13). 470337
- turbogenerators**
Foundation block for turbo-generator of Rajasthan atomic power station. (E13). 482572
- work**
The foundation of the units 2 and 3 of the nuclear power plant Angra dos Reis/Brasil. (E32). 461692
- FOUR-BODY PROBLEM:**
Baryonium and the four-body problem. (A21). 468023
- coulomb scattering**
Separation of the two-body Coulomb singularities in the system of four charged particles. (A11). 467016

- crossing symmetry**
Crossing-symmetric four-body unitarity condition. (A21). 489907
- integral equations**
Energy-dependent pole expansions for the effective potentials in the four-body integral equations. (A33). 478679
- lippmann-schwinger equation**
Integral equations for the four-body problem in various approaches. (A11). 492448
- many-body problem**
Quantum-mechanical few-body scattering equations with half-on-shell energy-independent subsystem input. (A21, A11; Hamiltonian scattering theory). 464873
- phase shift**
Four-body model of the four-nucleon system. (A33). 486227
- quantum mechanics**
Quantum-mechanical few-body scattering equations with half-on-shell energy-independent subsystem input. (A21, A11; Hamiltonian scattering theory). 464873
- scattering amplitudes**
Four-particle scattering with three-particle interactions. (A21). 468007
Spurious solutions in few-body equations. (A33). 475700
- total cross sections**
Four-body model of the four-nucleon system. (A33). 486227
- unitarity**
Crossing-symmetric four-body unitarity condition. (A21). 489907
- wave functions**
Antisymmetrized four-body wave function and coexistence of single particle and cluster structures. (A33). 478672
- FOUR-FERMION INTERACTION:**
See FERMION INTERACTIONS
- FOUR-NUCLEON STRUCTURE:**
See QUARTET MODEL
- FOUR-NUCLEON TRANSFER REACTION:**
See also ALPHA-TRANSFER REACTIONS
- FOURIER ANALYSIS:**
integrals
An explicit expression of the $B_{\text{sup}}(q, \text{sub}(n, m))$ -integrals in the Fourier analysis of eclipsing variables. (A15). 460021
- FOWL:**
See also CHICKENS
- FR-2 REACTOR:**
isotope production
A possible renewal of D_2O -moderated research reactors. (E36, E37). 484992
- neutron beams**
A possible renewal of D_2O -moderated research reactors. (E36, E37). 484992
- FRACER-FULCO METHOD:**
See DISPERSION RELATIONS
- FRACTIONATED IRRADIATION:**
biological effects
Effect of radiation quality and repair processes on the incidence of neoplastic transformation in vitro. (C11; X radiation, mice). 490914
- biological models**
Use of different models for the estimation of fractionated regimens of intracavitary gamma-therapy of uterus cervix cancer. (C15). 469715
- delayed radiation effects**
Cancer risk in radiotherapy of the auxiliary region. (C63). 470204
- dose-response relationships**
Comparison of effects of continuous and fractionated gamma irradiation. (C14). 484539
- equations**
Further considerations on the basis of the Ellis-formula and its applications. (C63). 476816
- functions**
Theoretical derivation of a logarithmic equivalence function for the fractionation in depth therapy. (C63). 487754
- mathematical models**
Blar-Davidson model used for substantiation of the optimum method for fractionated irradiation. (C15). 479901
- neoplasms**
Comparative trial of large and small fractions in the radiotherapy of head and neck cancer. (C63). [Data] 463472
- radiation doses**
Postirradiated reoxygenation of RS-1 neoplasm under various irradiation conditions. (C14). 479835
- radiation doses**
Tables of TDF and BIR values for irradiation with 6 fractions weekly. (C55). [Data] 484699
- radiosensitivity**
Complications of combined surgery and neutron radiation therapy in patients with advanced carcinoma of the head and neck. (C15, C63). 487252
- Derivation of cellular survival kinetic parameters for experimental fractionated irradiation of rat skin. (C14; X rays). 461033**
- Effects of caffeine on the expression of potentially lethal and sublethal damage in γ -irradiated cultured mammalian cells. (C11; Human T-1 cells and Chinese hamster V79-79 cells). 490932**
- Radiobiological considerations in the use of total-body irradiation for bone-marrow transplantation. (C15, C63; Ablation of bone marrow stem cells prior to transplant in treatment of leukemia). 473020**
- Radiosensitizing effect of misonidazole on tumor control dose of mouse mammary carcinoma. (C14). 472965**
- Significance of fractionation regimens in radiation and combined hyperthermia using a murine fibrosarcoma. (C14, C63). 461041**
- survival curves**
Changes in the sensitivity of HeLa cells after split doses of X-rays. (C11). [Data] 490908
- FRACTURE PROPERTIES:**
charpy test
Some observations on ductile crack initiation and propagation in fracture toughness specimens. (B22). 490647
- elasticity**
A critical assessment of elasto-plastic fracture mechanics. (E17). 470441
- mathematical models**
Computer model for ductile fracture. (B22). 479427
An elasto-plastic theory of fracture and its application to the analysis of experimental data. (E22). 482686
Fracture behaviour in the presence of thermal strains. (B22, E22). 481788
Generalized fracture toughness of brittle materials. (B22). 465582
Some comment on the use of J. criterion in elastic plastic fracture mechanics. (E17, E22). 482654
- plasticity**
A critical assessment of elasto-plastic fracture mechanics. (E17). 470441
- reactor components**
A critical assessment of elasto-plastic fracture mechanics. (E17). 470441
- zirconium base alloys**
Slit-burst testing of cold-worked Zr-2.5 wt.% Nb pressure tubing for CANDU-PHW reactors. (E17, E34). 461579
- FRACTURE STRENGTH:**
See FRACTURE PROPERTIES
- FRACTURE TOUGHNESS:**
See FRACTURE PROPERTIES
- FRACTURES:**
mathematical models
An elasto-plastic theory of fracture and its application to the analysis of experimental data. (E22). 482686
- FRACTURES (BONE):**
See BONE FRACTURES
- FRACTURING (HYDRAULIC):**
See HYDRAULIC FRACTURING
- FRAGMENTATION (LIMITING):**
See LIMITING FRAGMENTATION
- FRAGMENTATION (NUCLEAR):**
See SPALLATION
- FRAGMENTS (DECAY):**
See DECAY
- FRAGMENTS (FALLOUT):**
See FALLOUT
- FRAGMENTS (FISSION):**
See FISSION FRAGMENTS
- FRAGMENTS (NUCLEAR):**
See NUCLEAR FRAGMENTS
- FRAGMENTS (PARTICLES):**
See PARTICLES
- FRANCE:**
atomic energy law
Decree No. 78-1193 of 18 December 1978 amending Decree No. 75-713 of 4 August 1975 setting up an inter-ministerial committee for nuclear safety. (F27, F23). 463820
- energy policy**
Nuclear power development in France and international cooperation. (F11, F12). 474310
- fuel management**
Nuclear fuel supply and management at E.D.F. (E32). 473899
- hydrology**
The chalk aquifer in Haute-Normandie (France) and its relationship with surface waters. Use of isotopic techniques. (B32). [Data] 460881
- Geochemical research on the thermal waters of Amelie-les-Bains (Pyrenees Orientales) and Plombieres-les-Bains (Vosges). (B32). [Data] 462984**
- licensing regulations**
Approval of devices and facilities using ionizing radiations for medical purposes. (F23, C61). 463809
- lmfbr type reactors**
Fast breeder reactor development program in France. (E35). 473984
- natural radioactivity**
Natural radioactivity in Southwest France and its possible genetic consequences for mammals. (C14, B31; Incidence of chromosomal aberrations in lymphocytes and spermatoocytes of rabbits and mice, respectively). 472964
- nuclear energy**
Energy forecasting in the preparation of French Plan VII. (F11). 471099
- nuclear industry**
The export of isolated nuclear equipment: an example of combined action on the US market. (F11). 474331
Framatome and exports. (F11). 474309
- nuclear power**
Nuclear power in France. (E30). 461659
Progress report on France. (E32, E35). 463637
- nuclear power plants**
Occupational radiation exposure at French power plants: measurement and prediction. (C52). 487414
- power demand**
French energy resources and needs. Incidence on the development of the national nuclear programme. (F11). 463791
- power reactors**
Nuclear power in France. (E30). 461659

- pwr type reactors**
Nuclear program of 1300 MW reactors. (F11). 474305
radiation monitoring
Measurements of monthly tables. (C52, C22). [Data] 473265
Measurements of monthly tables. (C52, C22). [Data] 473264
Progress report. Details of the monthly results of measurements. (C52, C22). [Data] 473267
Progress report. Detail of the monthly results of measurements. (C52, C22). [Data] 473266
Progress report. Detail of the monthly results of measurements. (C52, C22). [Data] 473269
1. Quarterly progress report 1978. (C52, C22). [Data] 473268
2. Quarterly progress report, 1978. (C52, C22). [Data] 473263
radiation protection
Organization of the nuclear safety in France. (F27). 471138
regulatory guides
Quality assurance during operation of a nuclear plant. (C53, E22). 466345
reserves
French energy resources and needs. Incidence on the development of the national nuclear programme. (F11). 463791
technology transfer
SOFINEL: a new engineering society for nuclear power plant sale to foreign countries. (F11). 474329
transport regulations
Transport of Gamma Radiography Apparatus (Dangerous Goods 1978, no. 7). (F24). 463810
- FRANCIUM:**
spectra
First evidence for an optical transition in francium atoms. (A12). 459748
- FRANCIUM ISOTOPES:**
See also *FRANCIUM 206*; *FRANCIUM 213*; *FRANCIUM 221*
FRANCIUM 206:
nuclear properties
Nuclear data sheets for A=206. (A34). [Data] 465235
FRANCIUM 213:
yrast states
High spin yrast states in N=126 isotones. (A34). 475816
FRANCIUM 221:
energy-level transitions
²²¹Rn decay. (A34). 462640
- FRANCKENSTEIN:**
See *SCANNING MEASURING PROJECTORS*
FRANCO-GERMAN HIGH FLUX REACTOR:
See *GRENOBLE REACTOR*
FRASCATI LINAC:
photon beams
Photoreactions at Frascati. (A31, A34). 468220
positron beams
Photoreactions at Frascati. (A31, A34). 468220
- FREE CONVECTION:**
See *NATURAL CONVECTION*
FREE ENERGY:
thermodynamics
Rigorous results in quantum mechanics and statistical mechanics. (A21, A11; Cosimer operator, separation of variables, two-and three-body forces, nonstandard analysis). 460175
FREE ENERGY (HELMHOLTZ):
See *FREE ENERGY*
FREE RADICALS:
See *RADICALS*
FREEZE-DRIVING:
See *LYOPHILIZATION*
FREEZING:
preservation
Physiopathology of blood platelets: a model system for studies of cell-to-cell interaction. Comprehensive three year progress report, August 1, 1975 - October 31, 1978. (C52). 476678
- FRENCH ORGANIZATIONS:**
See also *CEA*; *CEA PIERRELATTE*; *COGEMA*
FRENKEL DEFECTS:
physical radiation effects
Radiation-induced cation vacancy generation in U-center-containing NaBr crystals. (A13). 488932
Spontaneous recombination volumes of Frenkel defects in neutron-irradiated non-fcc metals. (B25). [Data] 465737
recombination
Thermal instabilities due to the recombination of Frenkel pairs. (B25). 472746
threshold energy
On the "threshold" energy of the Frenkel-defect formation by fast particles. (A13). 492706
- FREONS:**
burnout
Burnout and intensification of heat transfer in a four-red bundle in freon-12 and water flows. (E11). 480348
evaporation
Nucleation processes in large scale vapor explosions. (E11). 491463
nucleate boiling
Nucleate boiling in thin liquid films. (E11). 480345
Prediction of incipient flow boiling from a uniformly heated surface. (E11). 480354
superheating
Prediction of incipient flow boiling from a uniformly heated surface. (E11). 480354
- FREQUENCY (LANGMUIR):**
See *LANGMUIR FREQUENCY*
- FREQUENCY CONVERTERS:**
josephson junctions
Quasiparticle heterodyne mixing in SIS tunnel junctions. (E12). 470322
superconducting junctions
Low-noise 115-GHz mixing in superconducting oxide-barrier tunnel junctions. (E12). 470316
- FREQUENCY RANGE:**
radiosensitivity
Possibilities and problems in uv radiation carcinogenesis experiments. (C14). 472950
- FRESH WATER:**
chemical analysis
Biocide by-products in aquatic environments. Annual report, October 1, 1977 - September 30, 1978. (C52, B11; Analysis and toxicity of by-products from chlorine used in nuclear power plant cooling systems). [Data] 473199
zirconium compounds
Determination of zirconium in natural water by spectrophotometry following the concentration step with yield tracer. (B11). 481632
- FRESH WATER ECOSYSTEMS:**
See *AQUATIC ECOSYSTEMS*
FRESNEL LENS:
(A lens with a surface consisting of a concentric series of simple lens sections.)
neutron diffraction
Applications of the Fresnel diffraction of neutrons. (A31). 472106
solar energy
Highly concentrating Fresnel lenses. (F11). 480909
solar radiation
Highly concentrating Fresnel lenses. (F11). 480909
- FRG-1 REACTOR:**
reliability
Backfitting swimming pool reactors. (E36, E37). 485007
retrofitting
Backfitting swimming pool reactors. (E36, E37). 485007
- FRG-2 REACTOR:**
reliability
Backfitting swimming pool reactors. (E36, E37). 485007
retrofitting
Backfitting swimming pool reactors. (E36, E37). 485007
- FRICKE DOSEMETERS:**
See *CHEMICAL DOSEMETERS*
FROGS:
eyes
Selection of appropriate medial branch of the optic tract by fibres of ventral retinal origin during development and in regeneration: an autoradiographic study in *Xenopus*. (C31). [Data] 487325
radionuclide kinetics
Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346
- FRUIT (SEEDS):**
See *SEEDS*
FRUIT FLIES:
See also *CERATITIS CAPITATA*; *DACUS OLEAE*; *DROSOPHILA*
biological radiation effects
Effects of pairing unirradiated females with irradiated and unirradiated males of the Oriental fruitfly (*Dacus dorsalis* Hendel). (C42). 463316
reproduction
Effects of pairing unirradiated females with irradiated and unirradiated males of the Oriental fruitfly (*Dacus dorsalis* Hendel). (C42). 463316
- FRUIT TREES:**
genetic radiation effects
Gamma rays and magnetic fields-induced vivipary in *Cucumis pubescens* wild. (C41). 469841
low dose irradiation
Radiation as a stimulant for early flowering in pineapple (*Ananas Comosus* Merr.) variety 'kew'. (C41). 463298
quantitative chemical analysis
Elemental concentration in fruits and leaves of chicku and mango under natural environmental conditions. (B11). [Data] 483998
radiation induced mutants
The characteristics and stability of a range of Cox's Orange Pippin apple mutants showing different growth habits. (C41). 476634
Effect of different gamma doses on fertility and mutation frequency in apple frees. (C41). [Data] 476638
- FRUITS:**
(Edible parts of plants only.)
See also *APPLES*; *BANANAS*; *COCONUTS*; *ORANGES*; *PAPAYAS*; *PEANUTS*; *PLUMS*
gamma radiation
Gamma-rays speed fruit breeding work. (C41). 463273
quantitative chemical analysis
Elemental concentration in fruits and leaves of chicku and mango under natural environmental conditions. (B11). [Data] 483998
radiation induced mutants
Gamma-rays speed fruit breeding work. (C41). 463273
radioactivity
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
- FSD DEVICES:**
See *FLYING SPOT DIGITIZERS*
FSH:
biological localization
Autoradiographic localization of specifically bound ¹²⁵I-labeled follicle-stimulating hormone on spermatogonia of the rat testis. (C62). 470144

- biological radiation effects**
Serum FSH, LH, and testosterone in ^{60}Co γ -irradiated male rats. (C14, C62). 461034
- radioimmunoassay**
Dried *Staphylococcus aureus* as a rapid immunological separating agent in radioimmunoassays. (C62). [Data] 487753
Gonadotropin determination in 24-h-urine by sensitive LH and FSH radioimmunoassays. (C62). 487728
Reduction of non-specific serum responses in human pituitary gonadotropin radioimmunoassays. (C45). [Data] 473169
Serum FSH, LH, and testosterone in ^{60}Co γ -irradiated male rats. (C14, C62). 461034
- FT. CALHOUN-1:**
See CALHOUN-1 REACTOR
- FUEL ASSEMBLIES:**
See also FUEL ELEMENT CLUSTERS
Improved grid for a nuclear reactor fuel assembly. (E23). 494911
- after-heat removal**
Comparison of numerical results with experimental data for single-phase natural convection in an experimental sodium loop. (E35; LMFBR). 495019
- boiling detection**
Two-phase flow phenomena in nuclear reactor technology. (C52, E32; PWR). 469961
- burnup**
Fuel assembly. (E23). 470572
Method for burning fuel assemblies. (E23). 491791
- bwr type reactors**
Fuel assembly. (E31). 470647
- configuration**
Fast reactor. (E35). 477280
- configuration control**
Water cooled reactor and its operation method. (E31, E32). 473875
- containers**
Drum of storing fuel assemblies of nuclear reactor. (E22; Patent). 480580
- d codes**
Analysis of buckling and integral spectrum measurements with 28-element natural uranium oxide fuel assemblies. (E21). 480552
- deformation**
Irradiation-swelling-induced bow in fast reactor subassemblies. (E35). 461784
- dose rates**
Calculated, two-dimensional dose rates from a PWR fuel assembly. (E32). 473886
- fabrication**
Fabrication details for wire wrapped fuel assembly components. (E35; LMFBR). 488122
- fasteners**
Deformation behavior of steel guide tubes in pressurized water reactor fuel elements at impact compression force. (E32). 466694
Fuel lock down device. (E32; Patent; PWR). 470657
Hydraulic hold-down for nuclear reactor fuel. (E32; Patent; PWR). 470659
- flow blockage**
PWR FLECHT-SEASET unblocked bundle, forced and gravity reflood task; task plan report. (C52, E32). 461222
- flow regulators**
Liquid metal cooled fast breeder nuclear reactors. (E35). 494987
Temperature-dependent liquid metal flowrate control device. (E35; Patent). 488127
- fuel pins**
Fuel assembly. (E35). 473981
Fuel assembly. (E23). 470571
- heat transfer**
COBRA IV-I: an IBM-compatible version. (E32; PWR). 461706
COBRA-IV wire wrap data comparisons. (E35; LMFBR). 494986
Measuring heat transfer through TR-0 reactor fuel element. (E36). 463695
[Data]
Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
Thermal-hydraulic evaluation of advanced wire-wrap assemblies. (E35). 480712
- hydraulics**
COBRA IV-I: an IBM-compatible version. (E32; PWR). 461706
COBRA-IV comparison with the WARD 11:1 scale LMFBR air flow tests. (E35). 488118
COBRA-IV wire wrap data comparisons. (E35; LMFBR). 494986
Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
Theory and application of a quasi-Eulerian fluid element for the STRAW code. (C52, E35; LMFBR). 469928
Thermal-hydraulic evaluation of advanced wire-wrap assemblies. (E35). 480712
- nondestructive analysis**
Non-destructive measurement for plutonium 239 and uranium 235 in spent fuel assembly. (E23). 473814
- performance testing**
Reactivity Initiated Accident Test Series Test RIA 1-4: experiment operating specification. (C52, E32; PWR). 494437
Test fuel rod irradiation. Licensing submittal to the NRC for the irradiation of test fuel rods in a 16 x 16 nuclear reactor. (E32; PWR). 461694
- physical radiation effects**
Irradiation-swelling-induced bow in fast reactor subassemblies. (E35). 461784
- power distribution**
Calculation of power distribution in a reactor fuel assembly by the albedo method. (E21). 466591
- pressure gradients**
PBF-LOCA test series test LOC-11 experiment operating specification. (C52, E32, E36; PWR). 473237
- pulsed reactors**
Some characteristics of IRT reactor of NPEI of the BSSR Academy of sciences with loops in the core. (E36). 470783
- quality control**
Fuel components QC reports. (F11, E23; Nuclear power plants). 474319
- reactor channels**
Leak control device for coolant in fuel assembly. (E24). 473828
- remote handling**
Positioning table for the fabrication of nuclear fuel rods. (E23). 466620
- seismic effects**
Nonlinear dynamic analysis of prismatic elements for high-temperature gas-cooled reactor cores. (E33). 491937
- shock absorbers**
Fuel assemblies for nuclear reactors. (E32). 494952
- shrouds**
Fuel assembly for a reactor. (E23). 470568
Shroud for a fuel assembly. (E35). 470763
- simulation**
Two-phase flow phenomena in nuclear reactor technology. (C52, E32; PWR). 469961
- spacers**
Cellular grid for spacing tubular components especially nuclear fuel rods. (E23). 494915
Nuclear reactor spacer assembly. (E23; Patent). 470558
Spacer for supporting fuel element boxes. (E35; Patent; LMFBR). 480715
- spatial distribution**
PBF-LOCA test series test LOC-11 experiment operating specification. (C52, E32, E36; PWR). 473237
- specifications**
Analysis of buckling and integral spectrum measurements with 28-element natural uranium oxide fuel assemblies. (E21). 480552
Construction for fissionable material. (E23). 480605
Construction for fissionable material. (E23). 484923
Fuel arrangement for high temperature gas cooled reactor. (E33; Patent). 461731
Fuel assembly for fast reactor. (E35; Patent). 461767
Mixed oxide PWR fuel assembly design at B and W. (E32). 473915
Nuclear reactor with fuel column coolant regulation. (E33; Patent; HTGR). 461727
- spent fuel storage**
Swivel base for fuel assembly storage. (E15). 494718
- springs**
Reactor fuel assembly. (E23). 477147
- storage**
Sustaining system of a heavy vertical element. (E23). 491790
- stress analysis**
Pressurized water reactor lateral core response routine (Fuel Assembly Mechanical Response Code) FAMREC. Interim report. (E32). 473893
- stresses**
Nonlinear dynamic analysis of prismatic elements for high-temperature gas-cooled reactor cores. (E33). 491937
- supports**
Device with pivoting base for the storage of nuclear fuel. (E23). 494918
Fuel rod support. (E23). 473808
Inner structure for nuclear power plant. (E31). 491859
Nuclear fuel sub-assemblies. (E35). 494985
Supports with apertures for fuel assemblies in a nuclear reactor. (E23). 491778
- temperature monitoring**
RAGRAF: a computer code for calculating temperature distributions in multi-pin fuel assemblies in a stagnant gas atmosphere. (E33). 491920
- thorium**
Fuel assembly. (E23). 470572
- transport**
Safety of WWER-440 fuel assembly transport. (E15). [Data] 463546
- turbulent flow**
Turbulent sweeping flow mixing model for wire wrapped LMFBR assemblies. (E35, E11). 488130
- welding**
Method of welding nuclear reactor fuel assemblies. (E23; Patent). 488008
- zircaloy**
Impact of fuel assembly design on fuel utilization. (E23). 491771
- FUEL BUNDLES:**
See FUEL ELEMENT CLUSTERS
- FUEL CANS:**
Controlled biaxial strain-rate test results from unirradiated 20% CW 316 stainless steel cladding at constant temperature. (E23, B22). 488002
- beryllium**
Beryllium as a nuclear fuel cladding material. (B22). 462902
- coatings**
Method of fabricating the inner surface of a fuel cladding tube. (E35). 491988
- cold working**
Production and inspection of zircaloy fuel cladding tubes. (E23). 477141
- corrosion**
Corrosion of Zircaloy-4 tubing in 68OF water (LWBR development program). (B15, E35). 465501

- corrosion protection**
 Method of fabricating the inner surface of a fuel cladding tube. (E35). 491988
 Nuclear fuel element. (E31, E32). 482751
 Nuclear fuel element. (E23). 482718
 Oxygen transport limitations in using getters to control fuel cladding chemical interaction. (E35, B15; LMFBR). 470775
 Support spacer of nuclear fuel. (E31). 477219
- corrosion resistance**
 Nuclear fuel element. (E31, E32). 482741
- creep**
 Transient deformation properties of zircaloy for LOCA simulation. (C52, E32, B22; PWR). 461253
- deformation**
 Deformation characteristics of Zircaloy cladding in vacuum and steam under transient-heating conditions: summary report. (E31, E32, B22; PWR; BWR). 466662
 Evaluation of simulated-LOCA tests that produced large fuel cladding ballooning. (C52, E32; PWR). 487558
 Preliminary analysis of surface displacement results in the creepdown irradiation experiment HOBBIIE-1. (B25, E23). 490725
- descaling**
 Precipitation removing device for fuel cladding tubes. (E22). 473774
- electromagnetic testing**
 Analysis of various NDT techniques to determine their feasibility for detecting thin layers of ferrite on Type 316 stainless steel. (B25, E35, E17). 479535
- embrittlement**
 Embrittlement of zircaloy cladding due to oxygen uptake (CBRTTL). (C52, E31, E32; BWR; PWR). 466324
 Oxidation and embrittlement of zircaloy-4 cladding from high temperature film boiling operation. (C52, E32, B22; PWR). 494434
- fabrication**
 Powder metallurgy at Savannah River Laboratory. (B23, E23, B25). 472700
- failures**
 Code Development and Analysis Program: cladding mechanical limits (CMLIMIT). (E31, E32, B22). 494939
- fission product release**
 Corrosion product deposition and release at nuclear fuel sheaths in boiling water. (B15, E34). 465493
 Method to reduce the 131 iodine content in cooling water of a pressurized-water reactor. (E32). 477243
- hot working**
 Production and inspection of zircaloy fuel cladding tubes. (E23). 477141
- hydridation**
 Sources of internal hydriding in unirradiated thorium-fueled Zircaloy rods (LWBR Development Program). (E35). 480678
- intergranular corrosion**
 Some electron microprobe analysis results concerning the interaction between uranium-plutonium mixed-oxide fuel and stainless-steel cladding. (E35, B15). 470772
- loss of coolant**
 Studies of fuel models. (E31). [Data] 461679
- mechanical properties**
 Effects of multiple transients on fast reactor fuel pin cladding mechanical properties. (E35, B22). 461754
 Influence of defects on the properties of WWER cladding tubes. (E17). [Data] 491697
 Mechanical properties of transient-tested irradiated fast-reactor cladding. (E36, E23, B25; 811° to 1644°K; 5.8×10^{22} n/cm²). 461795
 Nuclear fuel element. (E31, E32). 491864
- notches**
 Nuclear fuel pin controlled failure device. (E23). 491788
- o codes**
 Computer code OVCOLL for calculating the fuel element cladding durability under external pressure. (E32, F51). [Data] 494953
- performance**
 Zircaloy cladding deformation and fracture analysis. Research projects 700 and 971; interim report, August 1978. (E31, E32; BWR; PWR). 470636
- physical radiation effects**
 Effects of multiple transients on fast reactor fuel pin cladding mechanical properties. (E35, B22). 461754
 Effects of stoichiometry on cladding reaction in mixed-oxide fuel at high burnup. (E35, B25; PuO₂-UO₂). 461775
 Fuel adjacency effects on fast reactor cladding mechanical properties. (E35, B25; LMFBR). 491983
 The irradiation behaviour of a carbide fuel pin cluster with sodium bonding. (E35). 482791
 Mechanical properties of transient-tested irradiated fast-reactor cladding. (E36, E23, B25; 811° to 1644°K; 5.8×10^{22} n/cm²). 461795
- protective coatings**
 Method for the protection of the cladding tubes of fuel rods. (E22, E31, E32). 473796
- quantitative chemical analysis**
 Determination of nitride nitrogen in irradiated materials. (B11). 475894
- shape**
 Reactor fuel rod. (E23). 470565
- spatial distribution**
 Fluorine concentration profile determination in MAGNOX reactor fuel canning material. (B11). 472356
 Two-dimensional temperature distributions in fuel rods under blowdown conditions. (C52, E32). 487571
- stainless steel-20-25**
 Structure and properties of nitrided stainless steel fuel cladding for use in advanced gas-cooled reactors. (E33). 470696
- strains**
 Effect of fuel chips on cladding stress in zircaloy clad oxide fuel rods (LWBR development program). (C52, E35). 482246
- stress corrosion**
 Iodine stress-corrosion cracking in irradiated Zircaloy cladding. (E31, E32, B15; PWR; BWR). 491861
- stress relaxation**
 Nuclear fuel element. (E23). 477145
- stresses**
 Nuclear fuel element. (E35). 482799
- surface cleaning**
 Method for manufacturing fuel rods. (E23; decontamination of zirconium fluorides by annealing). 470570
- surface coating**
 Nuclear fuel element. (E31, E32). 491864
- swelling**
 Nuclear fuel elements. (E35). 482802
 Study into properties of the magnesium cladding of a gas-cooled reactor fuel element. (B22). 476333
- temperature measurement**
 Miniature Zircaloy-sheathed fuel rod cladding surface thermocouples. Progress report. (E32, E42). 470686
- testing**
 Selected advances in materials research. (B22, D21). 479380
- texture**
 A study of the effect of process factors (values of Q and E) on the texture and distribution of hydrides in tubing manufactured from a zirconium alloy with 1% niobium. (B22). [Data] 490628
- thermal expansion**
 Calculation of the influence of the radial temperature gradient on cladding dilatation. (B25, E23). 472769
- thermal testing**
 The ballooning behaviour of zircaloy-4 fuel sheaths at a heating rate of 0.5 deg C.s⁻¹. (E23). 491775
- transient overpower accidents**
 Fuel adjacency effects on fast reactor cladding mechanical properties. (E35, B25; LMFBR). 491983
- transients**
 Thermal parameters of light-water reactor fuel elements. (E32). 482770
- ultrasonic testing**
 Production and inspection of zircaloy fuel cladding tubes. (E23). 477141
 Ultrasonic testing process with filtering at the scanning frequency and corresponding device. (E17). 473747
- zircaloy 4**
 Practice oriented study of Zircaloy-4 cladding tubes. (E32). 466687
- FUEL CASKS:**
 See CASKS
- FUEL CELLS:**
electrolytes
 Solid electrolyte fuel cell based on stabilized zirconia. (A16). 485955
zirconium oxides
 Solid electrolyte fuel cell based on stabilized zirconia. (A16). 485955
- FUEL CHANNELS:**
critical heat flux
 Critical heat flux experiments with a local hot patch in an internally heated annulus (LWBR development program). (E35). 473976
heat flux
 The heating element for simulation of the heat and temperature regime in the fuel channel of research reactor RA. (E36). 477306
tubes
 Centrifugal casting proves its worth for critical components. (E22). 473777
- FUEL COOLING INSTALLATIONS:**
 See SPENT FUEL STORAGE
- FUEL CYCLE:**
 See also PLUTONIUM RECYCLE; THORIUM CYCLE
 Description of alternative steady-state fuel cycles. (E31, E32, B16). 466661
 Improvements in once-through PWR fuel cycles. Interim progress report, fiscal year 1978. (E32). 488063
 Large high-temperature gas-cooled reactor medium-enriched uranium spent fuel element definitions and block flows. Volume II. (E33, F12). 470722
 Large high-temperature gas-cooled reactor medium-enriched uranium spent fuel element definitions and block flows. (E33, F12). 470721
 Nuclear fuel assurance: origins, trends, and policy issues. (F12). 488416
 Sensitivity of water reactor fuel cycle parameters and costs to nuclear data. (E31, E32). 466659
- accounting**
 Modeling and simulation for the design and evaluation of advanced materials accounting systems. (F41, B16). 480933
- atomic energy agreements**
 Halfway through INFCE. (F12). 471119
- bwr type reactors**
 Nuclear fuel supply for countries embarking on a nuclear power programme, and aspects of developing a domestic nuclear fuel industry. (F12, E31, E32). 495243
- cogema**
 The fuel cycle and COGEMA. (F12). 474350
- comparative evaluations**
 Assessment of the thorium and uranium fuel cycle in the fast breeder and the high temperature reactor. (F12). 462006
 Gas reactor international cooperative program interim report. Pebble

| | | | | |
|---|--------|---|---|--------|
| bed reactor fuel cycle evaluation. (E33). | 491921 | reactor shutdown | Forward planning of refuelling outages. (E31, E32). | 473863 |
| Assessment of the usefulness of an activity concentration of the fissile material processing industry in the advancing nuclear power economy. (F10). | 471095 | reprocessing | Fuel handling, reprocessing, and waste and related nuclear data aspects. (B16, E15, E50). | 493853 |
| Fuel cycle cost studies: fabrication, reprocessing, and refabrication of LWR, SSCR, HWR, LMFBR, and HTGR fuels. (F12, B16). | 466917 | research programs | Nuclear energy and the fuel circuit. (F12). | 488413 |
| Multi-reactor, non-equilibrium, fuel-cycle cost minimization program with applications to plutonium recycle and limited separative work. Final report. (B16). [Data] | 486797 | ERDA Light Water Reactor Fuel Recycle Assistance Program. | (B16). | 472588 |
| Sensitivity of LWR fuel cycle costs to uncertainties in detailed thermal cross sections. (E31, E32). | 466674 | Fuel cycle studies. | (B16). | 469019 |
| Simple procedure for determining implications of design changes on fast reactor fuel cycle cost and breeding performance. (E35, F12). | 480675 | Nuclear Science and Technology Branch report 1977. | (B16). | 476213 |
| Summary of cost projection for regulatory uncertainties in the back end of the fuel cycle. (F11, B16; Contribution from HLW disposal, alpha-waste criteria, and in-plant material control/accountability for safeguards). | 474330 | Recycling of plutonium in light-water reactors. | (E21). | 470504 |
| Uranium separation from phosphates and the fuel cycle process. (F12). | 492290 | reviews | Nuclear fuel cycle. Vol. 1. (B16, E23). | 469023 |
| cost benefit analysis | | Technology of the light water reactor fuel cycle. (C52, B16, E50). | [Data] | 476729 |
| Cost benefit analysis of concentrating fuel fabricating and reprocessing capacities in frowning nuclear power. (F12). | 480912 | safeguards | Denatured fuel cycles for international safeguards. (C52, F41). | 461274 |
| economics | | Measurements and standards for nuclear materials safeguards. | Quarterly technical report 1 May-1 Sep 1978. (F41). | 492322 |
| The costs of nuclear power in the Netherlands. (F11). | 471108 | Safeguards - a new approach. (F40). | | 474367 |
| Fuel cycle and quality control. (F12). | 485213 | safety analysis | The nuclear fuel cycle including essential aspects of safety. (C52, B16). | 466337 |
| International symbiosis: the role of thorium and the breeders. (F12). | 488415 | site selection | Experience from a collocated fast reactor fuel cycle. (E35). | 463666 |
| Nuclear fuel cycle. Vol. 2. (B16, E50, F12). | 469024 | standardized terminology | Nuclear technology. (B16, E30, E40). | 476207 |
| Research and development requirements for the recycle of bred fuels in uranium and thorium fuel cells. (F12; LWR; SSCR; HWR; HTGR; LMFBR; GCFR). | 488414 | sweden | Assessments of nuclear systems. (E30). | 463611 |
| Sensitivity of nuclear fuel cycle cost to uncertainties in nuclear data. (F12, E32; PWR). | 488411 | uranium | Nuclear fuels and their use in atomic reactors: uranium. (E23). | 463602 |
| energy yield | | Uranium separation from phosphates and the fuel cycle process. (F12). | | 492290 |
| The energy content of unused uranium in the current nuclear fuel cycle. (F12). | 492288 | FUEL CYCLE CENTERS: | federal republic of germany | |
| environment | | The nuclear waste management centre. (B16). | | 490517 |
| Technical progress in the alternate fuel cycle program. II. (C52). | 480043 | liquid wastes | Advanced biological treatment of aqueous effluent from the nuclear fuel cycle. (E51). | 492239 |
| environmental impacts | | manipulators | Fuel element transport container. (E15, B16). | 484851 |
| Environmental Impacts Program. (B33, B32). [Data] | 479702 | planning | The concept for the German nuclear waste disposal center, considered with regard to nuclear safety. (B16, C52). | 469028 |
| federal republic of germany | | safeguards | Proliferation resistance design of a plutonium cycle (Proliferation Resistance Engineering Program: PREP). (B16, F41). | 460649 |
| Nuclear primary energy carriers. Pt. 1. (F12). | 474342 | FUEL DENSIFICATION: | (The increase in density of nuclear fuel resulting from thermal and/or radiation effects.) | |
| financing | | Irradiation-induced densification and PuO₂ particle behavior in mixed oxide LWR fuels. (E31, E32, B25). | | 473861 |
| Meeting the special requirements of the fuel cycle industry. (F11; Financing nuclear power projects). | 477499 | FUEL DISPERSION REACTORS: | <i>See also SLURRY REACTORS</i> | |
| forecasting | | FUEL ELEMENT CLUSTERS: | Method for savings in nuclear reactors by using beryllium rods in fuel bundles. (E23; Patent). | 480604 |
| The nuclear cycle: present situation and prospects. (F12). | 462002 | critical heat flux | Experimental determination of heat transfer characteristics of a rod bundle. (E11). | 466481 |
| france | | d codes | Analysis of some seven rod clusters of metallic uranium using the computer code DUMLAC. (E21). | 480533 |
| French fuel cycle activities. (F12). | 471117 | deformation | Rod deformation and cladding reactions in a PWR fuel rod cluster: results of test PCM-5. (E32). | 488076 |
| French private nuclear fuel cycle industries. (F12). | 471116 | fabrication | Experience in the fabrication of fuel bundles for the Garigliano Power Plant and their performance in operation. (E32). | 494949 |
| french organizations | | fluid flow | Comments on: 'Studies on diversion cross-flow between two parallel channels communicating by a lateral slot - part I' by A. Tapucu. (E23). | 461646 |
| French fuel cycle activities. (F12). | 471117 | Laboratory manual for salt mixing test in rod bundles. (E35). | | 488148 |
| international cooperation | | Laminar, transition, and turbulent parallel flow pressure drop across wire-wrap-spaced rod bundles. (E35, E11; LMFBR). | | 461756 |
| Halfway through INFCE. (F12). | 471119 | Reply to: 'Comments on studies on diversion cross-flow between two parallel communicating channels by a lateral slot - Part I' by J. Weisman. (E23). | | 484929 |
| Report of the International Subgroup of the Interagency Review Group on nuclear waste management. (E50). | 466865 | fuel pins | Deformation analysis of fuel pins within the wire-wrap assembly of an LMFBR. (E35). | 480700 |
| japan | | heat transfer | Multicell slug flow heat transfer analysis of finite LMFBR bundles. (E35). | 495033 |
| Fuel cycle industrialization program prepared by N-Fuel Research Committee. ANRE. (F61). | 482962 | Post dryout heat transfer in fuel rod clusters. (E23). [Data] | | 480603 |
| Interim report on nuclear fuel cycle studied by Nuclear Fuel Study Committee. (F12). | 492294 | Sensitivity theory for reactor thermal-hydraulics problems. (E35, E21). | | 466731 |
| low-level radioactive wastes | | hydraulics | Sensitivity theory for reactor thermal-hydraulics problems. (E35, E21). | 466731 |
| Origin and characteristics of low-level non-transuranic waste from the nuclear fuel cycle. (E50). | 474165 | hydrodynamics | Results of measuring local hydrodynamic characteristics of geometrically disturbed rod bundle. II. (E11). [Data] | 463516 |
| mathematical models | | | | |
| ARC System fuel cycle analysis capability. REBUS-2. (F12, E35). | 474344 | | | |
| nuclear data collections | | | | |
| Sensitivity of nuclear fuel cycle cost to uncertainties in nuclear data. (F12, E32; PWR). | 488411 | | | |
| nuclear materials management | | | | |
| Material control and accountability aspects of safeguards for the USA ²³⁵ U/Th fuel recycle plant. (F41, B16). | 471153 | | | |
| Model for evaluating nuclear strategies with proliferation resistance. (F12, F41). | 492291 | | | |
| optimization | | | | |
| Fuel utilization potential in light water reactors with once-through fuel irradiation using various reactivity control methods (AWBA Development Program). (E32; PWR). | 470675 | | | |
| NUFCOS - nuclear fuel cycle optimization system. (F12, F51). | 480914 | | | |
| personnel | | | | |
| Study of advanced professional educational requirements relative to nuclear fuel cycle engineering in industry and government. Final report. (F12). | 477508 | | | |
| planning | | | | |
| Nuclear symbiosis. Why, when and how. (E35). | 463687 | | | |
| pwr type reactors | | | | |
| The manufacturing step in the PWR fuel cycle. (E32). | 473889 | | | |
| Nuclear fuel supply for countries embarking on a nuclear power programme, and aspects of developing a domestic nuclear fuel industry. (F12, E31, E32). | 495243 | | | |
| quality control | | | | |
| Fuel cycle and quality control. (F12). | 485213 | | | |

| | |
|--|--------|
| irradiation | |
| Results of the preliminary irradiations. (E35, E23). | 491969 |
| 16-rod-bundle: irradiation in the MZFR and post-irradiation examinations. (E34, E32). | 470730 |
| liquid flow | |
| Stationary hydrodynamic load on a tube bundle for complicated liquid flow. (E11). | 491492 |
| Subchannel friction factors for rod bundles: laminar flow predictions and their application to turbulent flows. (E35, E11). | 482803 |
| liquid metals | |
| Temperature fields in the inlet thermal areas and in the stabilized zone of heat transfer of moved apart rod bundles when hydrodynamic and thermal stabilizing (Cooling with liquid metal). (E11). | 487832 |
| lmfbr type reactors | |
| Experimental investigations of turbulent flows in rod bundles with and without spacer grids. (E11, E35). | 491484 |
| mass transfer | |
| Theoretical estimation of the value of stagnation zone behind a rectangular obstacle in a fuel element assembly. (E23). | 488010 |
| nondestructive analysis | |
| Effects of cesium-137 distributions in fuel bundle on intensity of gamma-ray in gamma scan method. (E23). | 477148 |
| performance | |
| CANDU fuel performance and development. (E34). | 461737 |
| performance testing | |
| Experimental fuel assembly irradiation experience in EBR II. (E35, E36). | 480688 |
| pressure drop | |
| Laminar, transition, and turbulent parallel flow pressure drop across wire-wrap-spaced rod bundles. (E35, E11; LMFBFR). | 461756 |
| reliability | |
| Reliability demonstration test for light water reactor type of nuclear power plant. (E31, E32). | 477222 |
| spacers | |
| Fixing device for a spacer rod of a spacer grid. (E31, E32). | 470619 |
| Fuel assembly for a nuclear reactor. (E23). | 491789 |
| Nut plate for a fuel element. (E22). | 473802 |
| Spacer for water-cooled nuclear reactor fuel elements. (E31, E32). | 470631 |
| Spacers for fuel rod clusters. (E22). | 477118 |
| Spacers for water cooled nuclear reactor fuel rods. (E22). | 477120 |
| Spacing grille for nuclear reactor fuel assemblies. (E23). | 491777 |
| Tube-shaped component between fuel assemblies of boiling water reactors. (E31). | 466669 |
| specifications | |
| Input parameters to codes which analyze LMFBFR wire wrapped bundles. Revision 1. (E35). | 495030 |
| subcooled boiling | |
| Boiling sublayers along heated walls. (E31, E32, E11). | 480624 |
| supports | |
| Device for absorbing the axial forces occurring on the fuel assemblies during operation of a nuclear reactor. (E22). | 482701 |
| Nuclear fuel cluster. (E23). | 482713 |
| Support and spacer arrangements of fuel elements in active zones of water-water-reactors. (E32). | 473910 |
| temperature noise | |
| Fast reactor programme. (E35, F62, E21). | 470751 |
| thermodynamics | |
| Thermo- and fluid-dynamic studies on fuel rod and absorber bundles. (E11, E35). | 461491 |
| turbulent flow | |
| Experimental investigations of turbulent flows in rod bundles with and without spacer grids. (E11, E35). | 491484 |
| two-phase flow | |
| Calibration of a fast neutron scattering technique for measurement of void fraction in rod bundles. (E23). | 491768 |
| Two-phase flow patterns with high-pressure water in a heated four-rod bundle. (E31, E32, E11; BWR;PWR). | 480637 |
| voids | |
| Calibration of a fast neutron scattering technique for measurement of void fraction in rod bundles. (E23). | 491768 |
| FUEL ELEMENT FAILURE: | |
| FRESS pin failure model and its application to E-8 TREAT test. (C52, E35). | 487512 |
| Fuel and coolant motions following pin failure: EPIC models and the PBE-5S experiment. (C52, E35; LMFBFR). | 480061 |
| Impact of pellet-cladding interaction on fuel integrity: a status report. (E31, E32; PWR;BWR). | 466671 |
| Light water reactor fuel response during reactivity initiated accident experiments. (C52, E31). | 480108 |
| LMFBFR fuel analysis. Task A: oxide fuel dynamics. Final report, October 1977 - September 1978. (C52, E35). | 487461 |
| Observations on damage accumulation during iodine-induced stress corrosion cracking of Zircaloy cladding. (C52, E31, E32, B15; PWR; BWR). | 473234 |
| Pin failure modeling of the A series CABRI tests. (C52, E35). | 482247 |
| Potential for cladding thermal failure in LWRs during high temperature transients. (C52, E31, E32). | 487472 |
| Probabilistic method of calculating the effect of clad ballooning in a large bundle LOCA experiment. (C52, E32). | 487399 |
| Reliability of nuclear fuel. (C52, E23). | 487536 |
| SIFAIL: a subprogram to calculate cladding deformation and damage for fast reactor fuel pins. (E35). | 492017 |
| bending | |
| Radiation effects in A-1 power plant fuel elements. (E34). | 484976 |
| cost | |
| Methods for determining the cost of fuel failures in nuclear power plants. Final report. (E31, E32; BWR;PWR). | 470642 |
| failed element detection | |
| Failed fuel detection using differential activity monitoring method. (E36). | 480716 |
| Recovery of broken fuel pin and the investigation on the safety of re-operation of the Mihama Unit 1 plant, Kansai Electric Power Co. (E32). | 482767 |
| Systems for detecting failed fuel in fast reactors. (E35, E23). | 477278 |
| failed element monitors | |
| Failed fuel detection using differential activity monitoring method. (E36). | 480716 |
| fission product release | |
| Measurement and modelling of postirradiation fission product release from HTGR fuel particles under accident conditions. (E33). | 461726 |
| Prediction of thermal consequences of plenum fission gas release in an LMFBFR fuel assembly. (C52, E35). | 487511 |
| fuel-coolant interactions | |
| Fuel pin modeling of the fresh oxide/sodium prompt burst energetics experiments. (C52, E35; LMFBFR). | 461329 |
| hydraulics | |
| Analysis of internal fuel motion during PINEX-2 experiment. (C52, E35). | 491182 |
| hydrodynamics | |
| Role of Rayleigh - Taylor instabilities in fuel-coolant interactions. (C52, E35, E11; LMFBFR). | 466284 |
| leaks | |
| An analysis of the additional fission product release phenomena. (E31, E32). | 470648 |
| loss of coolant | |
| Zircaloy-clad fuel rod burst behavior under simulated loss-of-coolant condition in pressurized water reactors. (E32). [Data] | 473891 |
| mathematical models | |
| FRAP-T5: a computer code for the transient analysis of oxide fuel rods. (C52, E35). | 494435 |
| Multichannel model for relocation of molten fuel cladding in unprotected loss-of-flow accidents in liquid-metal fast breeder reactors. (C52, E35). | 461228 |
| Simple fuel pin transient and melting model and its application to thermal-hydraulics in lmfbr subassembly. (C52, E35). | 487441 |
| mihama-1 reactor | |
| Recovery of broken fuel pin and the investigation on the safety of re-operation of the Mihama Unit 1 plant, Kansai Electric Power Co. (E32). | 482767 |
| nsrr reactor | |
| Progress report on NSRR experiments, (2). (E31, E32). | 473866 |
| physical radiation effects | |
| Metallic fuel elements in carbon dioxide cooled reactors - radiation effects and operational experience. (E34, E33). | 484977 |
| pressure gradients | |
| Pressure pulses generated by gas released from a breached fuel element. (C52). | 461327 |
| rayleigh-taylor instability | |
| Role of Rayleigh - Taylor instabilities in fuel-coolant interactions. (C52, E35, E11; LMFBFR). | 466284 |
| reactivity insertions | |
| Fuel failure behavior of unirradiated fuel rods under reactivity initiated accident conditions. (E31, E32). | 466666 |
| research programs | |
| Multirod Burst Test Program progress report, July - December 1978. (C52, E31, E32; BWR; PWR). | 491133 |
| Thermal fuels behavior program. Program overview and research results. (C52, E31, E32). | 487619 |
| simulation | |
| Behavior of a failed fuel rod during film boiling operation. (C52, E32; PWR). | 480038 |
| Damage and failure of unirradiated and irradiated fuel rods tested under film boiling conditions. (C52, E31, E32; BWR; PWR). | 487533 |
| Heat transfer, sodium boiling and fuel pin integrity after a severe LMFBFR piping failure. (C52, E35, E11). | 469912 |
| threshold energy | |
| Effect of heat generation profile in pellet on fuel failure behavior. (E31, E32). | 482747 |
| ultrasonic testing | |
| Ultrasonic testing device. (E17). | 470459 |
| FUEL ELEMENTS: | |
| See also FUEL PINS; FUEL PLATES; FUEL RODS; HOLLOW FUEL RODS; SPENT FUEL ELEMENTS | |
| Nuclear fuel element. (E23). | 484916 |
| agr type reactors | |
| Development of fuel elements for the AGR. (E33). | 494969 |
| burnup | |
| Analysis of fast reactor fuel depletion based on the separable kernel form of space dependent continuous slowing down theory. (E21). | 494893 |
| Burnup determination of some fuel specimens. (B16). | 469033 |
| CCB, a two-dimensional diffusion theory continuous cross-section burnup code for fast reactor analysis. Final report. (E35). | 470742 |
| Development of depletion perturbation theory for coupled neutron/nucleide fields. (E23). | 473815 |
| Plutonium isotopic calculations for a modern light water reactor. (E32; PWR). | 488074 |
| ceramography | |
| Procedures used in the UK for the ceramographic examination of (UPu)O ₂ oxide fuels for the Dounreay Prototype Fast Reactor. (E35, E32, F31). | 484984 |

- configuration**
Fission product arrangement of a fast neutron reactor. (E35). 470753
- construction**
Fuel, breeder, or absorber element with elements for fission gas removal. (E23). 461635
Nuclear reactor fuel element. (E23). 466622
- containers**
Critical separation between subcritical clusters of low enriched UO_2 rods in water with fixed neutron poisons. (E31, E32, E15; PWR; BWR). 473856
Wagon for the transport of fuel element transport containers. (E15). 482585
- counting techniques**
Method and arrangement for the realization of conducting material bodies. (E17, E33). 466570
- data acquisition systems**
Procedures used in the UK for the ceramographic examination of $(\text{UPu})\text{O}_2$ oxide fuels for the Dounreay Prototype Fast Reactor. (E35, E32, F31). 484984
- defects**
The causes and behaviour of fabrication defects in BWR type fuel. (E31). 491869
- diagrams**
Nuclear fuel element and method for making same. (E23). 477144
- eccs**
Rewetting of a vertical surface with internal heat generation. (C52). 480170
- eddy current testing**
Eddy-current unit for quality control of fuel elements. (E17). 466568
- electroplating**
Electroplating method and apparatus. (E23; Patent). 488004
- fabrication**
Device for the production of Pu fuel rods for nuclear reactors. (E23). 482720
Dispersion-type fuel and heat-absorbing elements based on graphite with pyrolytic carbon binder for high temperature gas cooled reactors. (B24, B25). 468997
The fabrication of MTR elements. (E37, B21). 477310
High-uranium-loaded U_3O_8 -Al fuel element development program. (E36). 461798
Method for automatic filling of nuclear fuel rod cladding tubes. (E23). 484917
Powder metallurgy development at SRL. (B21, B23, E23). 465553
- failures**
The main causes of fuel element failure in water-cooled power reactors. (E31, E32, E34). [Data] 484947
- fbr type reactors**
Nuclear reactor. (E35). 482796
- feasibility studies**
High-uranium-loaded U_3O_8 -Al fuel element development program. (E36). 461798
- fission product release**
Fission gas release (FGASRL). (E31, E32; BWR; PWR). 470634
Fission product holdup in graphite. (E33; HTGR). 461712
- fission products**
The response of fission gas bubbles to the dynamic behavior of point defects. (B25). 469424
- gas flow**
Determination of the slope and intercept of the universal velocity profile from pressure loss measurements. (E35). 491981
- heat transfer**
Burnup-dependent heat transfer from fuel to cladding in fast reactor fuel rods. (E21). 487955
Nuclear fuel rod behavior during LOFT experiment L2-2. (C52, E32). 487592
Statistical account of defects in calculating characteristic fuel element temperatures. (E21). 466586
- htgr type reactors**
Method for the fuel element production for high temperature reactors. (E33). 466705
Method to manufacture breeder kernels or fuel and breeder kernels for nuclear reactor fuel elements. (E33). 488094
- inconel alloys**
Process of high-temperature vacuum treatment with controlled residual atmosphere. Application to brazing of Inconel. (B22, E32). 493993
- inspection**
Experience in the case of acceptance of fuel and fuel elements for light water reactors. (E32, E23). 484966
Process for differentiating between spherical operating elements of nuclear reactors according to their neutron exchange effect properties. (E23). 470567
- irradiation devices**
A device of irradiation and measurement of fuel elements for nuclear reactors. (E15). 463549
- isotope ratio**
Limitation of the uranium content of MTR fuel elements from the technological standpoint of the fuel element manufacturer. (E37). 485013
- krypton**
Fuel model studies. Calculation of fuel rod fission product inventories using GAPCON-THERMAL-2. (E21). [Data] 491714
- lmfbr type reactors**
Fission product arrangement of a fast neutron reactor. (E35). 470753
- materials testing reactors**
The fabrication of MTR elements. (E37, B21). 477310
- mathematical models**
Mathematical modelling of nuclear reactor fuel element behaviour. (E32). 484959
Modelling fuel element performance. (E32). 463639
- neutron radiography**
Neutron radiography with thermal neutrons in objects of cylindrical geometry. (A31). 472111
Proposed ^{235}U fuelled 30 kw tank type source reactor for neutron radiography of Kalpakkam. (E36). 480735
- oxidation**
In-pile steam oxidation of model HTGR fuel elements. (E33, B15). 466703
- performance**
Irradiation performance of helium-bonded uranium-plutonium carbide fuel elements. (E35, B25; LMFBR). 466729
LWR fuel performance program: progress in 1978. Special report. (E31, E32). 473874
Requirements for analysis of transient fuel rod behavior during design basis events. Final report. (E31, E32; BWR; PWR). 488029
- performance testing**
Advanced fast reactor fuels program. Second annual progress report, July 1, 1975 - September 30, 1976. (E35, B23). 480676
Data report for the NRC/PNL Halden Assembly IFA-432. (E31, E32; BWR; PWR). 461678
Fuel performance improvement program. Quarterly/annual progress report, October 1977 - September 1978. (E31, E32; BWR; PWR). 480623
- Fuel relocation as deduced from the gas flow resistance and thermal behavior of Halden Assembly IFA-430. (E31, E32; BWR; PWR). 491848
Re-irradiation and limit testing of the fuels PWR type reactors. (E17). 470475
- physical radiation effects**
The irradiation behaviour of a carbide fuel pin cluster with sodium bonding. (E35). 482791
Metallic fuel elements in carbon dioxide cooled reactors - radiation effects and operational experience. (E34, E33). 484977
Radiation effects in A-1 power plant fuel elements. (E34). 484976
- production**
Safety assessment for Dragon fuel element production. (E33, C52). 491936
Safety assessment for Dragon fuel element production. (E33, C52). 491935
The safety of operations in the Dragon fuel element production building during the manufacture of thorium fuel for the first charge of the Dragon Reactor experiment. (E33, C52). 488083
Safety of operations in the manufacture of driver fuel for the first charge of the Dragon Reactor and modifications to the safety document for the Dragon Fuel Element Production Building. (E33, C52). 488084
- protective coatings**
Eddy-current unit for quality control of fuel elements. (E17). 466568
- quality assurance**
Quality assurance for breeder reactor fuel fabrication. (E35). 488157
- quality control**
Experts valuation of oxide fuels and acceptance criteria for fuel elements. (E23). 484915
- radioactivity transport**
Fission product holdup in graphite. (E33; HTGR). 461712
- reactivity insertions**
Process for differentiating between spherical operating elements of nuclear reactors according to their neutron exchange effect properties. (E23). 470567
- reliability**
Aspects of fuel element reliability for WWER and Soviet channel-type reactors. (E32, E33). [Data] 491906
Reliability of nuclear fuel. (C52, E23). 487536
- remote viewing equipment**
Device to localize components that cannot be localized by optical means. (E22, E23). 473800
- retrofitting**
Improving the proliferation resistance of research and test reactors. (E36, F41). 485000
TRIGA-LEU fuel immediately available for substitution in plate-type research reactors up to 15MW. (E36). 484996
- rewetting**
Rewetting of a vertical surface with internal heat generation. (C52). 480170
- rings**
Guide rings of nuclear reactor fuel element. (E34). 480667
- slightly enriched uranium**
Choice and utilization of slightly enriched uranium fuel for high performance research reactors. (E36). 484994
- spacers**
Fuel element-grate construction. (E23). 482712
Nuclear fuel elements. (E23). 482717
Support and spacer arrangements of fuel elements in active zones of water-water-reactors. (E32). 473910
- specifications**
Experts valuation of oxide fuels and acceptance criteria for fuel elements. (E23). 484915
Nuclear fuel element. (E23; Patent). 480606
- stainless steels**
Steel alloys. (B25, E35). 460805
- stored energy**
Application of the response surface method of uncertainty analysis to establish distributions of FRAPS3 calculated stored energy for PWR-type fuels. (E32). 480643

- stress analysis**
On the problem of numerical solution of equations describing stress-deformed states of laminated fuel elements under conditions of creep and irradiation. (E23). 488007
- supports**
Bearing support for receiving used fuel elements of nuclear power stations. (E22; Patent). 480588
Nuclear reactor. (E35). 482796
Reactor. (E35; reactor core constituents support system). 477293
- temperature measurement**
Determination of nuclear reactor fuel element temperature by the thermal source technique. (E23). 488005
Use of thermometrical fuel assembly in study on the IRT reactor safety. (E32). 488058
- thermal conductivity**
Results of R+D activities in the HTR projects PNP, HHT, and NFE. (E33). 470705
- thermal neutrons**
Neutron radiography with thermal neutrons in objects of cylindrical geometry. (A31). 472111
- transients**
Thermal parameters of light-water reactor fuel elements. (E32). 482770
- transport**
Nuclear criticality safety assessment of ORR, NBS, and HFBR fuel element shipping package. (E15). 470363
Nuclear reactor facility. (E32). 488079
Nuclear reactor plant. (E32). 470685
- uranium 235**
The application of the Harwell neutron absorptiometer to the analysis of U-235 in nuclear fuel components. (B11). 493505
- uranium**
Fuel model studies. Calculation of fuel rod fission product inventories using GAPCON-THERMAL-2. (E21). [Data] 491714
- FUEL FABRICATION PLANTS:**
See also MIXED OXIDE FUEL PLANT
U.S. technology for mechanized/automated fabrication of fast reactor fuel. (B23). 460785
- accounting**
Safeguards and cost effective alternate to biannual uranium physical inventories. (F41, F30; General Electric BWR fuel fabrication plant). 488497
Uranium accountability for ATR fuel fabrication, a computer simulation. (F41). 488481
- automation**
Close-coupled analyses for nuclear fuels fabrication. (B11, B23). 460426
- commercial licenses**
Alteration of processing of nuclear fuel materials in Kumatori Works of Nuclear Fuel Industries, Ltd. (C52). 473205
- control**
Production control in HTGR fuel rod fabrication. (B21, B23). 486843
- decommissioning**
Decommissioning of nuclear facilities. An annotated bibliography. Final report Oct 1977 - Aug 1978. (C52, C54). 466310
- fuel rods**
Experience gained in the fabrication of experimental fuel rods with natural uranium and Zircaloy-4 cladding for irradiation experiments. (E23, B23). 491773
Fuel rod fabrication and engineered quality assurance under the requirements of KWU design. (E23, E32). 491792
- furnaces**
Sintering furnace for remote fuel fabrication. (E15). 461521
- inspection**
Licensed fuel facility status report. Status summary report. (F42, E50, C52). [Data] 466952
- nuclear materials management**
Coordinated safeguards for materials management in chemical separation, conversion, and fuel fabrication facilities. (F41). 488453
Dynamic materials control development and demonstration program. (F41; Plutonium Processing Facility at Los Alamos Scientific Laboratory). 488446
Fuel accountability and control at Combustion Engineering, Inc. (F41, F30). 488469
Material control in nuclear fuel fabrication facilities. Part II. Accountability, instrumentation, and measurement techniques in fuel fabrication facilities. P.O.1236909. Final report. (F41, B23, B21). 466940
Safeguards and cost effective alternate to biannual uranium physical inventories. (F41, F30; General Electric BWR fuel fabrication plant). 488497
- off-gas systems**
Acid in perchloroethylene scrubber solutions used in HTGR fuel preparation processes. Analytical chemistry studies. (E51). 461922
- personnel**
Plutonium-containing aerosols found within containment enclosures in industrial mixed-oxide reactor fuel fabrication. (B33, C54; Aerosol monitoring at Babcock and Wilcox Park Township, Pennsylvania site). 469569
- powders**
Experience gained in the fabrication of experimental fuel rods with natural uranium and Zircaloy-4 cladding for irradiation experiments. (E23, B23). 491773
- presses**
Evaluation of new compaction systems for high radiation fuel fabrication. (E15, B23; Sliding anvil and rotary presses). 461524
- public relations**
An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). 473207
- radioactive aerosols**
Plutonium-containing aerosols found within containment enclosures in industrial mixed-oxide reactor fuel fabrication. (B33, C54; Aerosol monitoring at Babcock and Wilcox Park Township, Pennsylvania site). 469569
- radioactive effluents**
Licensed fuel facility status report. Status summary report. (F42, E50, C52). [Data] 466952
Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). [Data] 470006
- radioactive wastes**
Waste management analysis for the nuclear fuel cycle. II. Recycle preparation for wastewater streams. (E51). 488347
- reviews**
Material control in nuclear fuel fabrication facilities. Part I. Fuel descriptions and fabrication processes. P.O. 1236909 Final report. (F42, B23, B21). 471167
- risk analysis**
Analysis of the effects of abnormal natural phenomena on existing plutonium fabrication plants. (C54, B31). 473285
- safeguards**
Impact of certain safeguards considerations on fuel-cycle facility design. (F41). 495253
Safeguards and cost effective alternate to biannual uranium physical inventories. (F41, F30; General Electric BWR fuel fabrication plant). 488497
- safety**
Effects of natural phenomena on the Babcock and Wilcox Co. Plutonium Fabrication Plant at the Parks Township site, Leechburg, Pennsylvania. Docket No. 70-364. (C54). 487633
An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). 473207
- uranium oxides**
Fuel rod fabrication and engineered quality assurance under the requirements of KWU design. (E23, E32). 491792
- waste processing**
Process options and projected mass flows for the HTGR refabrication scrap recovery system. (E51). 466884
- FUEL GAS:**
See also NATURAL GAS
- FUEL KERNELS:**
See FUEL PELLETS
- FUEL LOADING:**
See REACTOR FUELING
- FUEL MANAGEMENT:**
- computer codes**
Availability of computer codes for fuel management analyses. (F51). 466958
Computer programs for the in-core fuel management of power reactors. (E30). 473850
- data processing**
ASBLT: a system of DATATRAN MODULES which process core fuel loading for use in as-built calculations (LWBR Development Program). (E35). 488120
- optimization**
Optimum fuel loading and operation planning for light water reactor power stations. Part I. Pressurized water reactor case study. (E32). 470663
- pwr type reactors**
Some problems of in-core fuel management in PWR's. (E32). 484964
- trombay r-5 reactor**
Estimation of photo and fission neutron source strengths in the fuel handling flask of the R-5 reactor containing an irradiated fuel rod. (E21, E36). 480559
- FUEL MOTION DETECTION:**
(Determination of in-core nuclear fuel behavior.)
Fuel-motion unfolding based on point detector responses. (C52, E35). 482227
Sensitivity analysis applied to the calculation of detector-response kernels. (C52, E41, A31). 482232
- FUEL PARTICLES:**
See also COATED FUEL PARTICLES
- calcination**
Application of thermal analysis methods in the study of sintered uranium dioxide preparation. II. (B23). 484287
- fabrication**
Installation for the production of spherical particles from drops of aqueous solutions of uranium-, plutonium-, and thorium nitrates as well as mixtures of these materials for fuel- and fertile material elements for nuclear reactors. (E23). 466621
- htr type reactors**
Development of a dry-mechanical procedure for separating a mixture of two non-uniform grain fractions of HTR feed and breed particles. (E33). 491924
- microspheres**
Method to manufacture spherical fuel and breeder particles. (E23). 470564
- performance testing**
Irradiation performance of HTGR fuel in HFIR capsule HT-31. (B23). 479510
- production**
Chemical flowsheet conditions for preparing urania spheres by internal gelation. (B23). 494066
Method to manufacture spherical fuel and breeder particles. (E23). 470564

- separation processes**
Development of a dry-mechanical procedure for separating a mixture of two non-uniform grain fractions of HTR feed and breed particles. (E33). 491924
- sol-gel process**
Exploratory experiments on the feasibility of Th and Pu sol-gel particles. (B23, E33). 490678
- spatial distribution**
Method of measuring fuel particle distribution in nuclear fuel compacts. (E33). 473926
- surface coating**
Pyrolysis and mass transfer of hydrocarbon during coating-process of fuel particles in a conical fluidized bed. (B24, E33). 469402
- FUEL PELLETS:**
- ablation**
PELLET: a computer routine for modeling pellet fueling in tokamak plasmas. (A14). 459917
- acceleration**
Acceleration of solid pellets using a plasma gun. (A14). 485668
- chemical analysis**
Water and hydrogen content in oxide LWR nuclear fuels and in boron carbide. (B11). 483959
- compacting**
Evaluation of new compaction systems for high radiation fuel fabrication. (E15, B23; Sliding anvil and rotary presses). 461524
Pellet presses for remote fuel fabrication. (E15, B23). 463548
- cracks**
Analysis of crack patterns in fast reactor fuel pellets. (E35). 470749
Fuel crack volume predictions and measurements. (E35; LMFBR). 480683
- decladding**
Process and device for recovering fuel pellets from nuclear fuel elements. (E23). 491780
- droplets**
Kernel fuel. Its manufacture and application of LWR and FBR fuel rods. (E23). 494917
- emission spectroscopy**
Spectrochemical procedures for analytical control of eighteen general impurities and fourteen rare earth elements in UO_2 pellets and other uranium-base materials. (B11). 483982
- fabrication**
Alternative oxide fuel pellet fabrication for irradiation testing. (B21, E35; LMFBR). 460674
Babcock and Wilcox plutonium fuel fabrication experience. (E32, E36, E50). 473911
Development of a powder milling technique for making high density ThO_2 - UO_2 pellets (LWBR development program). (E35, B23). 461768
Fabrication of PuO_2 - UO_2 mixed-oxide fuel for the initial loading of a prototype heavy water reactor "FUGEN". (E34, B23). 473945
Fabrication of ThO_2 , UO_2 , and PuO_2 - UO_2 pellets. (E35, B23; LMFBR). 495018
Method for fabricating ceramic nuclear fuel pellets. (E31). 482750
Production plant for nuclear fuel pellets. (E23). 466618
System for the fabrication of nuclear fuel pellets. (E23). 494912
- fission product release**
Hollow pellets to improve the ramp behavior of fuel rods. (E23). 466623
- fuel densification**
Irradiation-induced densification and PuO_2 particle behavior in mixed oxide LWR fuels. (E31, E32, B25). 473861
- gas analysis**
Determination of gas residues in uranium dioxide pellets. (B23, B11). 476367
- heavy ion fusion reactions**
Fuel preconditioning studies for e-beam fusion targets. (A14). 485789
- heterogeneous effects**
Safety aspects of micro-heterogeneities in LWR mixed oxide fuels. (E32, E23, C52). 484965
- implosions**
High compression of pellets via a voltage-shaped electron beam. (A13). 464123
- impurities**
Spectrochemical procedures for analytical control of eighteen general impurities and fourteen rare earth elements in UO_2 pellets and other uranium-base materials. (B11). 483982
- inspection**
Automatic inspection system for nuclear fuel pellets or rods. (E23; Patent). 473810
Handling system for nuclear fuel pellet inspection. (E15). 461537
- laser implosions**
D-T seeded, deuterium-layered, tritium self-sufficient pellets. (A14). 474978
- nondestructive analysis**
Description and operation manual for the active well coincidence counter. (F41, B11, E41). 488474
- performance**
Requirements on LWR fuels from the viewpoint of operational behaviour. (E32, E23). 484954
- performance testing**
Test rig for nuclear fuel pellets. (E23). 473809
- physical radiation effects**
Auto-irradiation effects in DT pellets. (A14). [Data] 462304
Fuel crack volume predictions and measurements. (E35; LMFBR). 480683
- porosity**
Method of manufacturing nuclear fuel. (E23). 470561
- quality control**
Determination of gas residues in uranium dioxide pellets. (B23, B11). 476367
Methods of characterizing fuel structure. (E23). 484930
- quantitative chemical analysis**
Design and installation of the operational chemistry facility in support of LWBR binary (^{235}U) fuel production. LWBR development program. (B11, E15). 486511
- reactor safety**
Safety aspects of micro-heterogeneities in LWR mixed oxide fuels. (E32, E23, C52). 484965
- shape**
Fuel assembly. (E31, E32). 491874
Nuclear fuel pellet. (E23). 470575
- sintering**
Method of manufacturing nuclear fuel. (E23). 470561
- specifications**
Nuclear fuel pellet. (E23). 470560
Requirements on LWR fuels from the viewpoint of operational behaviour. (E32, E23). 484954
- temperature dependence**
Assessment of intergranular fracture within unstructured UO_2 fuel due to film boiling operation. (C52, E32). 487454
- thermal expansion**
Hollow pellets to improve the ramp behavior of fuel rods. (E23). 466623
Nuclear fuel element. (E23). 477145
- thermal stresses**
Analysis of crack patterns in fast reactor fuel pellets. (E35). 470749
Auto-irradiation effects in DT pellets. (A14). [Data] 462304
- uranium dioxide**
The influence of green UO_2 powder characteristics on the quality of fuel elements for water reactors. (B23). 490670
- x-ray fluorescence analysis**
Automated x-ray spectrometer for mixed oxide pellets. (B11). 460412
- FUEL PENCILS:**
See FUEL PINS
- FUEL PINS:**
- chemical composition**
Actinide redistribution in the outer regions of mixed-oxide fuel. (E35). 461776
Effects of non-stoichiometry on the behaviour of fast reactor oxide fuels. (E35, E23). 484987
- defects**
First attempt to classify defects revealed by neutron radiography in nuclear fuel for light water reactors. (E31, E32, E17). 463616
- deformation**
Deformation analysis of fuel pins within the wire-wrap assembly of an LMFBR. (E35). 480700
MABEL-1. A code to analyse cladding deformation in a loss-of-coolant accident. (E32). 463628
SIFAIL: a subprogram to calculate cladding deformation and damage for fast reactor fuel pins. (E35). 492017
- fabrication**
Babcock and Wilcox plutonium fuel fabrication experience. (E32, E36, E50). 473911
Device to fill fuel pellets into fuel cans. (E15). 466512
- failures**
Fast reactor programme. (E35, F62, E21). 470751
- fastening**
Fuel assembly. (E35). 473981
- for type reactors**
Effects of non-stoichiometry on the behaviour of fast reactor oxide fuels. (E35, E23). 484987
Irradiation experiments on carbide fuel. (E35). 461758
- fission product release**
Cesium chemistry in GCFR fuel pins. (E35). 488137
- fission products**
Radial distribution of bonded fission gas in mixed carbide fuel pins. (B25). 469430
- fuel densification**
Effects of fabrication conditions on in-pile densification of Framatome fuel. (E23). [Data] 491781
- gcf type reactors**
Sealed connection between fission gas outlet ducts. (E35). 470755
- heat transfer**
W-1 SLSF experiment. (C52, E35; LMFBR). 487576
- hydraulics**
W-1 SLSF experiment. (C52, E35; LMFBR). 487576
- lmfbr type reactors**
Fuel rod for a sodium-cooled reactor. (E35). 482789
Neutronic considerations in the design of a fuel pin for a fast power reactor. (E35). 480697
- loss of coolant**
The design of electrical heater pins to simulate transient dryout and post-dryout of water reactor fuel. (E32, E34). 482755
Mechanical interaction between fuel pins and assemblies during LOCA in BWR. (E31). 480627
- mathematical models**
State and parameter estimation in a nuclear fuel pin using the extended Kalman filter. (E23). 466619
- melt-down**
Early-in-life thermal performance of UO_2 - PuO_2 fast reactor fuel. (C52, E35, E36). 480018
- metallography**
Selection of the reference concept for the surface examination stations in the fuels and materials examination facility. (E15). 473643

- performance**
- Design and performance of sodium-bonded uranium-plutonium carbide fuel elements. (E35; LMFBR). 466727
- Interactions between thermal and structural behavior in FBR fuel pins. (E35). 491978
- Performance of U-Pu-Zr metal fuel in 1000 MWe LMFBRs. (E35). 488151
- Probabilistic assessment of light water reactor fuel performance. (E31, E32). 480630
- performance testing**
- Fabrication and irradiation performance of $\text{Pu}_{0.25}\text{U}_{0.75}\text{O}_{1.91}$ low O/M fuel. (E35, B25; LMFBR). 461786
- The German oxide fuel pin irradiation test experience for fast reactors. (E35). 482798
- HEDL mixed oxide fuel pin breach experience in EBR-II. (E35). 480711
- Mixed oxide run-beyond-cladding-breach tests in EBR-II. (E35). 480710
- Results of the in-pile experimental program SCARABEE. (E35). 461747
- Steady state irradiation behavior of mixed oxide fuel pins irradiated in EBR-II. (E35; LMFBR). 480698
- physical radiation effects**
- Irradiation experiments on carbide fuel. (E35). 461758
- pressure release**
- Nuclear fuel pin controlled failure device. (E23). 491788
- radionuclide migration**
- Cesium migration in LMFBR fuel pins. (E35, B25). 480689
- seals**
- Sealed connection between fission gas outlet ducts. (E35). 470755
- shape**
- Fuel assembly in fbr type reactor. (E35). 473973
- simulation**
- The design of electrical heater pins to simulate transient dryout and post-dryout of water reactor fuel. (E32, E34). 482755
- Nuclear pin simulation analysis. (C52, E31, E32). 461217
- Surface heat flux perturbations in BDHT fuel pin simulators. (C52, E32; PWR). 480123
- specifications**
- Application of core structural design guidelines in conceptual fuel pin design. (E35; LMFBR). 488160
- Design and performance of sodium-bonded uranium-plutonium carbide fuel elements. (E35; LMFBR). 466727
- Neutronic considerations in the design of a fuel pin for a fast power reactor. (E35). 480697
- supports**
- Fuel assembly of fbr type reactor. (E35). 473974
- Spacer grid for nuclear fuel elements. (E23). 461636
- swelling**
- Radial distribution of bonded fission gas in mixed carbide fuel pins. (B25). 469430
- welded joints**
- Computer controlled ultrasonic inspection of pulsed magnetic welded fuel pins. (E23). 491774
- FUEL PLATES:**
- specifications**
- Status and development potential of plate-type fuels for research and test reactors. (E36). 488204
- FUEL REPROCESSING:**
- See REPROCESSING
- FUEL REPROCESSING PLANTS:**
- See also BARNWELL FUEL REPROCESSING PLANT; IDAHO CHEMICAL PROCESSING PLANT; MIDWEST FUEL RECOVERY PLANT; WEST VALLEY PROCESSING PLANT
- accounting**
- Developing isotopic functions. (F41, B16). 466947
- Methods for the accountability of reprocessing plant dissolver and waste solutions. (B16, F41). 460650
- Modeling and simulation for the design and evaluation of advanced materials accounting systems. (F41, B16). 480933
- TASTEX gamma spectrometer system for measuring isotopic and total plutonium concentrations in solutions. (F41, B11). 495254
- Tracer techniques for the input accountability of plutonium in reprocessing plants: MAGTRAP and LEADTRAP. (F41, B16). 474374
- aerosols**
- Source-term study of plutonium-bearing particulates in a nuclear fuel reprocessing plant. (B33, B31, C52; ^{239}Pu). 479722
- air cleaning**
- Investigation of air cleaning processes for removing tributyl phosphate vapors from fuel reprocessing off-gas streams. (E51, B16). 480848
- Review of some UKAEA work on gas cleaning in fuel reprocessing plant. (B16, E51). 479329
- air samplers**
- Isolation and characterization of individual plutonium-bearing particles in atmospheric effluents from a nuclear processing plant. (C52, B13, E52). 487570
- automation**
- Instrumentation and control vis-a-vis the present problems and regulatory concern in reprocessing - An assessment. (B16). 462815
- construction**
- Air quality impacts due to construction of LWR waste management facilities. (C52, C50). 494395
- cost benefit analysis**
- Social cost-benefit analysis and nuclear futures. (F12). 474347
- criticality**
- Assessment of criticality safety. (B16, C54). 460646
- decommissioning**
- Decommissioning and rebuilding active reprocessing plant. (A15). 483439
- Decommissioning of nuclear facilities. An annotated bibliography. Final report Oct 1977 - Aug 1978. (C52, C54). 466310
- Radiation exposure pathways of primary importance to nuclear facility decommissioning planners. (B16, C52, C54). 460652
- Technology for commercial radioactive waste management. (E15, E52, C54). 487866
- decontamination**
- Decommissioning and rebuilding active reprocessing plant. (A15). 483439
- Dounreay rebuilds its reprocessing plant safely and economically. (C54, B16). 473296
- design basis accidents**
- Estimated airborne release of plutonium from Westinghouse Cheswick site as a result of postulated damage from severe wind and seismic hazard. (C52, C54). 494420
- environment**
- Population exposure estimates from atmospheric effluents from a model fuel reprocessing plant. (B33, C15, C21). 479683
- Summary of plutonium terrestrial research studies in the vicinity of a nuclear fuel reprocessing plant. (B31, C52). 479575
- environmental impacts**
- Fuel reprocessing plant environmental impact in the arid regions of the western United States. Annual report, October 1976 - September 1977. (B16, C52). 469032
- federal republic of germany**
- Final storage in existing plants tested. (E52). 471088
- Waste management centre can be technically realized. (E52). 471078
- flow regulators**
- The potential of power fluidics for plant protection. (B16, B11). 472575
- fuel storage pools**
- Risk analysis of a spent fuel receiving and storage facility using the GO methodology. Final report. (B16, E15, E52). 493858
- functional models**
- Experiences with the test facility MILLI for reprocessing nuclear fuel. (B16). 472590
- hearings**
- Nuclear power: the widening debate. (C52). 476677
- high-level radioactive wastes**
- Description of solid waste expected from a large commercial reprocessing plant. (E50, B16). 474173
- japan**
- The reprocessing plant of Tokai-Mura (Japan). (B16). 472584
- The Tokai-Mura reprocessing plant (Japan). (B16). 493854
- low-level radioactive wastes**
- Description of solid waste expected from a large commercial reprocessing plant. (E50, B16). 474173
- nuclear materials diversion**
- On-line estimator/detector design for a plutonium nitrate concentrator unit. (F41, B16). 495251
- nuclear materials management**
- Methods for the accountability of reprocessing plant dissolver and waste solutions. Technical report. (F41, B16). 495259
- Safeguards material control and accounting at licensed processing facilities. Quarterly report, July - September 1977. (F41). 488485
- off-gas systems**
- Aerosol and iodine removal system for the dissolver off-gas in a large fuel reprocessing plant. (B16, E51). 479332
- Analysis of stirred-tank carbonation reactors. (E51, B16; Removal of $^{14}\text{CO}_2$ by reaction with $\text{Ca}(\text{OH})_2$). 495200
- Burner and dissolver off-gas treatment in HTR fuel reprocessing. (B16, E51). 479328
- Development of a cryogenic krypton-separation system for the offgas of reprocessing plants. (E51, B16). 480857
- Developments in nuclear air cleaning in Germany. (E51, B16). 480859
- Elimination of $\text{NO}/\text{sub } x/$ by selective reduction with NH_3 . (E51, B16). 480832
- Gas cleaning research and engineering in Belgium. (E51, B16). 480835
- Krypton absorption in liquid CO_2 (KALC): effects of the minor components N_2 , CO , and Xe . (E51, B16). 461918
- Methods evaluation for the continuous monitoring of carbon-14, krypton-85, and iodine-129 in nuclear fuel reprocessing and waste solidification facility off-gas. (B16, C52, E50). 472574
- Noble gas separation with the use of inorganic adsorbents. (E51, B16). 480849
- Reference facility descriptions for iodine, carbon-14 and krypton radioactive gaseous wastes. Final report. (B16, E51). 479330
- Removal of ^{14}C -contaminated CO_2 from simulated LWR fuel reprocessing off-gas by utilizing the reaction between CO_2 and alkaline hydroxides in either slurry or solid form. (E51, B16). 480837
- Technical and economic evaluation of the atmospheric containment technology for radioactive isotope releases from nuclear fuel reprocessing plants. Environmental Study No. 2. (C52, B16). 466285
- [Data]**
- on-line measurement systems**
- Application of on-line plutonium isotopic concentration monitors at a nuclear fuel reprocessing plant. (B16, B11, F41). 465519
- Nondestructive, energy-dispersive x-ray fluorescence analysis of product-stream concentrations from reprocessed LWR fuels. (B16, B11). 460635
- On-line estimator/detector design for a plutonium nitrate concentrator unit. (F41, B16). 495251

- operating licenses**
Safety in alteration of nuclear fuel materials usage (alteration of Plutonium Fuel Development Laboratory No. 2) in Tokai Works of Power Reactor and Nuclear Fuel Development Corporation. (C52). 473204
- personnel dosimetry**
Radiation exposure at the Idaho Chemical Processing Plant. (C21, C15, C54). 491014
- personnel monitoring**
The management of plutonium workers. (C54, C55). 463405
- pilot plants**
General Atomic Reprocessing Pilot Plant: engineering-scale dissolution system description. (B16). 486831
- public opinion**
After Parker: A review of the Windscale inquiry and subsequent developments. (F61). 485256
- public relations**
Nuclear power. The Windscale controversy. (C52). 487422
An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). 473207
The Windscale inquiry and safety assessment. (C52). 473251
- radiation accidents**
Assessment of criticality safety. (B16, C54). 460646
- radiation hazards**
Radiation exposure pathways of primary importance to nuclear facility decommissioning planners. (B16, C52, C54). 460652
- radioactive aerosols**
Radioiodine detector based on laser induced fluorescence. (C52, B16, E51). 480020
- radioactive effluents**
Radioactive effluents from nuclear power stations and nuclear fuel reprocessing plants in the European Community. Discharge data 1972-1976 radiological aspects. (C52, C55). [Data] 491171
Windscale radiocaesium in the Clyde Sea area. (B32). 472850
- radioactive waste storage**
Materials screening tests for the krypton-85 storage development program. (B16, B15). 465523
Probabilistic reliability analysis of the high activity level liquid waste storage system in the Belgoprocess Reprocessing Plant. (E52, B16, C54). 488359
- radioactive wastes**
Interlaboratory model comparisons of atmospheric concentrations with and without deposition. (B33, C21). 479699
Management of radionuclides from reprocessing plant gaseous effluents. (E52, E51). 488388
Regional, U.S., and global population dose consequences from reprocessing nuclear fuels at an AFCT/TFCT fuel reprocessing facility. (C15, C21, B33). 479924
Waste management analysis for the nuclear fuel cycle. II. Recycle preparation for wastewater streams. (E51). 488347
- radionuclide migration**
Windscale radiocaesium in the Clyde Sea area. (B32). 472850
- reviews**
Existing and projected reprocessing plants. (B16). [Data] 472580
- risk analysis**
Applying Bayesian decision theory to assess reprocessing economic and social cost-benefits. (B16, C54). 486809
- safeguards**
Aggregated systems model for nuclear safeguards decisions. (F41, B16). 477528
Development of an advanced safeguards system as a proliferation deterrent. (F41; Computerized control; physical protection; safeguards coordination). 462033
Problem statement: international safeguards for a light-water reactor fuels reprocessing plant. (F41, B16). 480941
Role of near-real-time accounting in international safeguards for reprocessing plants. (F41, B16). 492315
- safety**
The potential of power fluidics for plant protection. (B16, E11). 472575
Safety concerning the partial alteration of the fuel reprocessing facility in Power Reactor and Nuclear Fuel Development Corporation. (C52). 463360
Safety concerning the alteration in fuel material usage (new installation of the high-level radioactive material research facility) in Tokai Works of Power Reactor and Nuclear Fuel Development Corp. (C52). 466272
An unclear decision for Germany. (C52; The proposed reactor complex at Gorleben). 473207
- sampling**
Sampling device for toxic and/or radio-active materials. (B16). 469021
- spent fuel storage**
Preliminary risk analysis of a spent fuel receiving and storage facility using the GO methodology. Final report. (B16, B33, E15). 469034
- tritium**
Production and emission of tritium from nuclear facilities, and the resulting problems. (C52). 491124
- water cooled reactors**
Processing of spent nuclear fuel from light water reactors. (B16). [Data] 484129
- FUEL RODS:**
See also **HOLLOW FUEL RODS**
A honeycomb grille for positioning nuclear fuel rods. (E23). 491770
- after-heat**
Comparisons of light water reactor pellet transient thermal response with FRAP-T4 predictions during reactor shutdown events under normal cooling conditions. (E31, E32; PWR; BWR). 488046
- behavior**
SSYST-MOD 1 - a system of computer codes for calculating the performance of fuel rods in a LOCA. (E23, E31, E32). 494913
- beta radiography**
Fission product migration in intact fuel rods S176 experiments 1-5: Metallography results. (E34, E23). 461740
- burnable poisons**
Critical experiments on light water lattices of UO_2 and Gd_2O_3 rods. (E31, E32). 461677
- burnup**
FRAP-S3: a computer code for steady state analysis of oxide fuel rods. Model assessment report. (E32; PWR). 473884
- bwr type reactors**
Studies of fuel models. (E31). 461679
- chemical composition**
Influence of fuel porosity and fuel rod parameter on the radial uranium-plutonium redistribution in reactor fuel rods. (E35, E23). 484980
MEU/Th fuel cycle optimization for the Lead Plant. (E33). 461725
- closures**
Apparatus for welding an end plug in a nuclear fuel tube. (E23). 477151
- defects**
Behavior of defective PWR fuel rods during power ramp and film boiling operation. (E32). 473887
Effect of fuel element parameters and its defects on temperature fields. (E23). 494916
- deformation**
Evaluation of fuel rod behavior during Test LOC-11. (C52, E32; PWR). 487452
Free-hanging bow measurements of LWBR fuel rods (LWBR Development Program). (E35). 488124
- destructive testing**
BR2-capsule irradiation experiment Mol-8c. (E23). 461645
- elongation**
Mechanical interaction between fuel pins and assemblies during LOCA in BWR. (E31). 480627
- engineering**
Fuel rod fabrication and engineered quality assurance under the requirements of KWU design. (E23, E32). [Data] 491792
- extensometers**
Linear variable differential transformer and its uses for in-core fuel rod behavior measurements. (E23, E42). 488009
- fabrication**
Apparatus for feeding nuclear fuel pellets to a loading tray. (E23, E15). 494914
Fabrication of PuO_2 - UO_2 mixed-oxide fuel for the initial loading of a prototype heavy water reactor "FUGEN". (E34, B23). 473945
Method for manufacturing fuel rods. (E23; decontamination of zirconium fluorides by annealing). 470570
Method of manufacturing a nuclear fuel rod. (E23). 491767
Method of processing fuel rods. (E23). 470569
Microcomputer system for controlling fuel rod length. (E42, E33; HTGR). 477443
Performance of triso-coated HTGR fissile fuel particles during in-block carbonization. (B24, B23). 472713
Process for automatic filling of nuclear fuel rod cans. (E23, E13). 461637
Production control in HTGR fuel rod fabrication. (B21, B23). 486843
- failed element detection**
Inspecting method for fuel rods. (E22). 470556
- failures**
Process for the repair of partly burnt-up fuel elements in the fuel element pond of pressurised water reactors. (E32). 470667
Reactor fuel rod. (E23). 470565
- fasteners**
Device for absorbing the axial forces occurring on the fuel assemblies during operation of a nuclear reactor. (E22). 482701
- fastening**
Nuclear fuel element for HTGR type reactors. (E33). 477257
- fbr type reactors**
Fuel element for a nuclear reactor. (E35). 470759
- fission products**
Determination of the chemical activity of fission product iodine in Zircaloy clad UO_2 fuel rods. (B13). 484072
- gamma fuel scanning**
Fission product migration in intact fuel rods. (E34, E23). [Data] 461733
- heat transfer**
Comparisons of light water reactor pellet transient thermal response with FRAP-T4 predictions during reactor shutdown events under normal cooling conditions. (E31, E32; PWR; BWR). 488046
FRAP-T3: a computer code for transient analysis of oxide fuel rods; model assessment report. (E31, E32; PWR; BWR). 473858
Gap conductance test Series-2: test results report for Tests GC 2-1, GC 2-2, and GC 2-3. (E31; BWR). 470621
- inspection**
Automatic inspection system for nuclear fuel pellets or rods. (E23; Patent). 473810
Free-hanging bow measurements of LWBR fuel rods (LWBR Development Program). (E35). 488124
LWBR automated fuel rod loading verification gage system (LWBR Development Program. (E35). 480692
Method and device for localizing failed fuel rods of a reactor fuel assembly. (E23). 461641
- loss of coolant**
SSYST-MOD 1 - a system of computer codes for calculating the performance of fuel rods in a LOCA. (E23, E31, E32). 494913

- mass transfer**
Radial and axial transfer of fuel in vibro-compacted fuel elements during the initial stages of irradiation. (E35). 473970
- mechanical vibrations**
Calculation of fuel rod dynamic response by state space method. (E11). 484816
- nondestructive testing**
Method and device for localizing failed fuel rods of a reactor fuel assembly. (E23). 461641
- openings**
Fuel, breeder or absorber rod with excess pressure safety device. (E23). 461638
- performance**
Behavior of defective PWR fuel rods during power ramp and film boiling operation. (E32). 473887
FRAP-S3: a computer code for steady state analysis of oxide fuel rods. Model assessment report. (E32; PWR). 473884
FRAPCON-1: a computer code for the steady state analysis of oxide fuel rods. (E31, E32; PWR; BWR). 488041
Fuel behavior model development: FRAPCON-2 uncertainty analysis option. (E31, E32; PWR; BWR). 488045
Performance of HTGR fuel in HFIR capsule HT-33. (E33). 491940
- performance testing**
Commercial fuel testing in the GETR (General Electric Test Reactor). (E36). 492030
Demonstration of fuel resistant to pellet-cladding interaction. Phase I. Final report. (E31, E32, E34). 488051
Evaluation of fuel rod behavior during Test LOC-11. (C52, E32; PWR). 487452
Loss-of-coolant accident test series test loc 3 experiment predictions. (C52, E32; PWR). 491213
Postirradiation thermal analysis of capsule PI3T. (E33; HTGR). 461721
Power-Cooling-Mismatch Test Series Test PCM-7. Experiment operating specifications. (C52, E32, E36; PWR). 473271
Reactivity initiated accident test series, test RIA 1-1. Quick look report. (C52, E31; BWR). 482225
- physical radiation effects**
Postirradiation examination data report for GAP conductance test series. Test GC 2-2. (E31, B25; BWR). 480628
- planning**
Alteration of reactor installation (Unit 1 reactor facility) in Ikata Nuclear Power Station of Shikoku Electric Power Company, Inc. (C52). 482205
- porosity**
Influence of fuel porosity and fuel rod parameter on the radial uranium-plutonium redistribution in reactor fuel rods. (E35, E23). 484980
- power density**
Power-up method for nuclear power plant. (E24). 473825
- power distribution**
Manifestations of nonlinearity in fuel center thermocouple steady-state and transient data: implications for data analysis. (E23). 477142
- pressure dependence**
Fuel, breeder or absorber rod with excess pressure safety device. (E23). 461638
- pressure measurement**
Method for verifying the pressure in a nuclear reactor fuel rod. (E23; Patent). 488003
Method for verifying the pressure in a nuclear reactor fuel rod. (E17, E23). 477093
- quantity ratio**
Nuclear fuel rod. (E23). 470574
- quenching**
Quenching of hot surfaces. (E32). 477228
- radiation protection**
Radiological control aspects of the fabrication of the Light Water Breeder Reactor core (LWBR Development Program). (E35). 488164
- remote handling**
Device for replacing the rods of a fuel element of a nuclear reactor. (E13). 461515
- repair**
Process for the repair of partly burnt-up fuel elements in the fuel element pond of pressurized water reactors. (E32). 470667
- ruptures**
Zircaloy-clad fuel rod burst behavior under simulated loss-of-coolant condition in pressurized water reactors. (E32). [Data] 473891
- shape**
Fuel assembly. (E23). 473813
- shielded metal-arc welding**
Apparatus for welding an end plug in a nuclear fuel tube. (E23). 477151
- spacers**
Brazing of AM-350 stainless steel LWBR fuel rod support grids (LWBR Development Program). (E35). 480681
Rod support for reactor fuel element. (E23). 470559
Spacer grid for fuel elements. (E23). 461640
- spatial distribution**
Manifestations of nonlinearity in fuel center thermocouple steady-state and transient data: implications for data analysis. (E23). 477142
- spray cooling**
BWR emergency core cooling investigations. Spray cooling heat transfer experiment in a full scale BWR bundle mock-up. (E31, E22). [Data] 461674
- strains**
Method for adjusting a reactor fuel. (E31, E32). 470651
- supports**
Nuclear fuel element for HTGR type reactors. (E33). 477257
- temperature measurement**
A comparison of the two-dimensional temperature distributions of PWR fuel rods obtained using the codes FRAP-T4 and TOODEE. (E23). [Data] 482715
Measurement of the contacted fuel rod surface temperature. (E32). 491897
Zircaloy sheathed thermocouples for PWR fuel rod temperature measurements. (E32, E42). 488055
- thermal conductivity**
Equivalent thermal conductivity for one-dimensional channel thermal calculation of multi-hole type HTGR fuel. (E21). [Data] 491708
Ex-reactor determination of thermal gap and contact conductance between uranium dioxide: zircaloy-4 interfaces. Stage 1: low gas pressure. (E31, E32; PWR; BWR). 494937
Fuel thermal conductivity (FTHCON). Status report. (E31, E32; PWR; BWR). 470626
Gap conductance test Series-2: test results report for Tests GC 2-1, GC 2-2, and GC 2-3. (E31; BWR). 470621
Postirradiation examination data report for GAP conductance test series. Test GC 2-2. (E31, B25; BWR). 480628
- thermal stresses**
GAPCON-THERMAL-3 verification and comparison to in-reactor data. (E23; Thermo-mechanical behavior of oxide fuel rods). 461643
- traps**
Method to produce adsorbant-containing support sleeves for nuclear fuel rods. (E23). 461644
- two-phase flow**
Experimental investigation on air-distribution in a water flowing through a 61-rod bundle with helical spacers. (E21). 470488
- ultrasonic testing**
Ultrasonic testing of nuclear fuel rod welds and clad (LWBR Development Program). (E35). 480679
- vapor pressure**
Fuel vapor pressure (FVAPRS). (C52, E31, E32; BWR; PWR). 480113
- very high temperature**
Fission product migration in intact fuel rods S176 experiments 1-5: Estimation of fuel temperatures during irradiation. (E34, E23). 461734
- welded joints**
Fuel rod welding (LWBR development program). (E35). 473949
- x-ray radiography**
LWBR automated fuel rod loading verification gage system (LWBR Development Program). (E35). 480692
- FUEL SCANNING:**
See also GAMMA FUEL SCANNING
- hgr type reactors**
Method for distinguishing and separating spherical fuel elements of high temperature reactors. (E33). 488091
- FUEL SHEATHS:**
See FUEL CANS
- FUEL SLUGS:**
See FUEL RODS
- FUEL STORAGE POOLS:**
Independent Spent Fuel Storage Installations (ISFSI). Annual report, FY 1978. (E15). 466517
- criticality**
Critical separation between subcritical clusters of low enriched UO₂ rods in water with fixed neutron poisons. (E31, E32, E15; PWR; BWR). 473856
- inventories**
Irradiated fuel monitors: preliminary feasibility study. (F41). 488455
- licensing procedures**
Public hearing on compact storage racks in the Ohu and Grafenrheinfeld power plants. (E31, E32). 470622
- loss of coolant**
Spent fuel heatup following loss of water during storage. (E31, E32; PWR; BWR). 480621
- mechanical structures**
Structural analyses of the fuel receiving station pool at the Nuclear Fuel Service reprocessing plant, West Valley, New York. (E15). 461525
- natural convection**
Local distribution of temperature in fuel storage pools. (E22). 470555
- neutron absorbers**
Facility for avoiding contamination of a fuel storage pool. (E15, E31, E32). 473642
- off-gas systems**
Arrangement for the prevention of contamination of a fuel element storage pool. (E22). 477129
- radioactivity**
Disposal of low-level radioactive waste from a fuel storage basin. (E15). [Data] 473652
- risk analysis**
Risk analysis of a spent fuel receiving and storage facility using the GO methodology. Final report. (B16, E15, E52). 493858
- shields**
Fuel element storage pond for nuclear installations. (E32). 482766
- slurries**
Removal and disposal of radioactive sludge from the fuel storage basin at the Idaho Chemical Processing Plant. (E52, B16). 495218
- specifications**
Spent fuel receipt and lag storage facility for the spent fuel handling and packaging program. (E15). 487867

- supports**
 Device for storing nuclear fuel elements. (E31, E32). 466668
 Storage rack for holding spent fuel elements from nuclear power plants. (E15, E31, E32). 473647
- transport**
 Nuclear reactor facility. (E32). 488079
- turbidity**
 Refueling outage water clarity improvement study. Final report. (E31, E32; PWR; BWR). 488028
- FUEL-CLADDING INTERACTIONS:**
 Advanced fast reactor fuels program. Second annual progress report, July 1, 1975 - September 30, 1976. (E35, B23). 480676
 Analysis of TREAT transient overpower experiments using the PLUTO2 codes. (C52, E35; LMFBR). 487609
 Demonstration of fuel resistant to pellet-cladding interaction. Phase I. Final report. (E31, E32, E34). 488051
 Effects of stoichiometry on cladding reaction in mixed-oxide fuel at high burnup. (E35, B25; PuO_2 - UO_2). 461775
 Effects of stoichiometry on cladding attack in UO_2 - PuO_2 . (E35, B15). 470757
 Fabrication and irradiation performance of $\text{Pu}_{0.25}\text{U}_{0.75}\text{O}_{1.91}$ low O/M fuel. (E35, B25; LMFBR). 461786
 Fuel-cladding chemical interaction in mixed-oxide fuels. (E35; LMFBR). 480695
 Impact of pellet-cladding interaction on fuel integrity: a status report. (E31, E32; PWR; BWR). 466671
 Observations on damage accumulation during iodine-induced stress corrosion cracking of Zircaloy cladding. (C52, E31, E32, B15; PWR; BWR). 473234
- fbr type reactors**
 Mechanical and chemical interaction between fuel and cladding. (E35). 461753
- fission product release**
 Fission gas retentive UO_2 fuels. (E31, E32). 491843
- fuel pellets**
 Nuclear fuel pellet. (E23). 470575
- mathematical models**
 Zircaloy cladding deformation and fracture analysis. Research projects 700 and 971; interim report, August 1978. (E31, E32; BWR; PWR). 470636
- microspheres**
 Improvement of fuel-element reliability by insertion of UO_2 microspheres in the gap between pellet and clad. (E23). 491784
- reliability**
 Zirconium alloys for fuel cans and structure elements under PWR operational and accident conditions. (E23, E32). 484918
- safety**
 Fuel assembly. (E31). 482748
- stainless steel-316**
 Some effects of fuel form and carbide distribution in the cladding on fuel-clad chemical interaction during irradiation in the Swedish reactor R2. (E23, B25). 480607
- stainless steels**
 Some effects of fuel form and carbide distribution in the cladding on fuel-clad chemical interaction during irradiation in the Swedish reactor R2. (E23, B25). 480607
- thermal conductivity**
 The effects of gas composition and pressure on the thermal conductance of UO_2 -Zircaloy interfaces under irradiation. (E23). 494909
- thermodynamic properties**
 Calculability of multiple chemical interactions. (B16, E11). 469020
- thermodynamics**
 Basic chemical compatibility of thorium carbides with Cr-Fe-Ni alloys. (E23). 461634
- zircaloy 4**
 Simulation of the chemical state of irradiated oxide fuel; influence of the internal corrosion on the mechanical properties of Zry-4 tubing. (E31, E32, B15). 473864
- FUEL-COOLANT INTERACTIONS:**
 Characterization of fragmented fuel from a thermal fuel-sodium interaction. (C52, E35; LMFBR). 473230
 Fuel pin modeling of the fresh oxide/sodium prompt burst energetics experiments. (C52, E35; LMFBR). 461329
 Heat transfer and fluid flow aspects of fuel-coolant interactions. (C52, E35; LMFBR). 482212
 MELT-IIIB: an updated version of the melt code. (C52, E35; LMFBR). 482239
 Some electron microprobe analysis results concerning the interaction between uranium-plutonium mixed-oxide fuel and stainless-steel cladding. (E35, B15). 470772
 Steam explosion triggering and efficiency studies. (C52, E31, E32; PWR; BWR). 473211
- energy transfer**
 FCI potential of oxide and carbide fuels: results of the prompt burst series at Sandia Laboratories. (C52, E35; LMFBR). 473281
- lmfbr type reactors**
 Theoretical investigations of fuel-coolant interaction. (E35). 461749
 Thermochemical aspects of fuel-cladding and fuel-coolant interactions in LMFBR oxide fuel pins. (B12). 468687
- pressure gradients**
 FCI potential of oxide and carbide fuels: results of the prompt burst series at Sandia Laboratories. (C52, E35; LMFBR). 473281
- reactor safety**
 Experiments on fuel-coolant interaction under transient conditions. (E35). 461752
- sodium**
 Laying the bogey of sodium boiling in FBR fuel clusters. (E35). 473951
- thermal stresses**
 Prediction of minimum UO_2 particle size based on thermal stress initiated fracture model. (C52, B23). 491137
- FUELS:**
 See also ANTHRACITE; COAL; DENATURED FUEL; FOSSIL FUELS; LIGNITE; MOLTEN SALT FUELS; NATURAL GAS; NUCLEAR FUELS; PETROLEUM; SHALE OIL; SOLID FUELS; SPENT FUELS; SYNTHETIC FUELS; THERMONUCLEAR FUELS
- FUELS (NUCLEAR):**
 See NUCLEAR FUELS
- FUGEN ATR:**
 See JATR REACTOR
- FUKUSHIMA-II-1 REACTOR:**
reactor licensing
 Alteration of reactor installation (Unit 1) in Fukushima Nuclear Power Station II of the Tokyo Electric Power Company, Incorporated. (C52). 482200
- FUKUSHIMA-II-2 REACTOR:**
reactor licensing
 Alteration of reactor installation (addition of Unit 2) in the Fukushima Nuclear Power Station No. 2 of the Tokyo Electric Power Company, Inc. (C52). 482202
- FUKUSHIMA-I REACTOR:**
reactor licensing
 Alteration of reactor installation (Unit 1 reactor facility) in Fukushima Nuclear Power Station No. 2 of The Tokyo Electric Power Company, Inc. (C52). 482204
- FULLY IONIZED GASES:**
 See also LORENTZ GAS
- FUMES:**
 See AEROSOLS
- FUNCTION (BIOLOGICAL):**
 See BIOLOGICAL FUNCTIONS
- FUNCTION GENERATORS:**
 See also HIGH-VOLTAGE PULSE GENERATORS; PULSE GENERATORS
- FUNCTIONAL MODELS:**
 See also REACTOR SIMULATORS
 MAP3S modeling development: annual progress. (C52). 480129
- FUNCTIONS:**
 See also ANALYTIC FUNCTIONS; BESSEL FUNCTIONS; CORRELATION FUNCTIONS; DELTA FUNCTION; GREEN FUNCTION; HYPERGEOMETRIC FUNCTIONS; LAGRANGIAN FUNCTION; PARTITION FUNCTIONS; POLYNOMIALS; SPECTRAL FUNCTIONS; STRENGTH FUNCTIONS; STRUCTURE FUNCTIONS; TRANSFER FUNCTIONS; VERTEX FUNCTIONS; WAVE FUNCTIONS
- FUNDAMENTAL CONSTANTS:**
 Critical comments on the constancy of the speed of light. (A11). 485318
 Gravitational theories generated by groups of transformation and Dirac's large number hypothesis. (A11). 459678
 Large numbers, cosmic coincidences and gravity. (A15, A11). 467830
 Self-consistent values of fundamental constants. (A11). 459667
- gravitation**
 The time-dependence of universal gravitational constant. (A11). 459660
- point charge**
 Further evidence for fractional charge of $1/3e$ on matter. (A22, B22). [Data] 464904
- reviews**
 Fine structure constant α . (A21). 468077
- time dependence**
 The time-dependence of universal gravitational constant. (A11). 459660
 Variation of constants. (A11, A21, A34; Review). 459666
- variations**
 Consequences of varying G. (A11). 459664
- FUNDAMENTAL PARTICLES:**
 See ELEMENTARY PARTICLES
- FUNGI:**
 See also ASPERGILLUS; CANDIDA; LICHENS; MUSHROOMS; MYXOMYCETES; NEUROSPORA; PENICILLIUM; SACCHAROMYCES; SACCHAROMYCES CEREVISIAE; TORULA; YEASTS
- labelled compounds**
 In vitro incorporation of $1\text{-}^{14}\text{C}$ -acetate and ^{32}P -orthophosphoric acid into phospholipids at various stages of growth of Pythium irregulare. (C21). 482081
- FUNGICIDES:**
 See also CYCLOHEXIMIDE
- FURANS:**
 See also BENZOFURANS; FURFURAL
- density**
 Viscosity and density of 2-methyltetrahydrofuran as a function of temperature. (B12, B24). 460457
- nmr spectra**
 INDO calculations and ^1H - and ^{13}C -NMR spectra of furan methyl derivatives. (B11). [Data] 462679
- radioassay**
 A novel radioassay for the determination of folate in serum and red cells and new observations on the stability of serum folate. (C45). 487361
- radiolysis**
 The radiolysis of binary mixtures of tetrahydrofuran with benzene, thiophene, pyridine, and nitrobenzene. (B14). 465471
- radiosensitivity**
 Radiosensitization, mutagenicity, and toxicity of Escherichia coli by several nitrofurans and nitroimidazoles. (C12; X radiation). 469607
- toxicity**
 Radiosensitization, mutagenicity, and toxicity of Escherichia coli by several nitrofurans and nitroimidazoles. (C12; X radiation).

- viscosity 469607
Viscosity and density of 2-methyltetrahydrofuran as a function of temperature. (B12, B24). 460457
- FURFURAL:**
coloration 490483
Studies on radiation-sensitive nonsilver halide materials, (I). (B14).
- FURNACES:**
See also ARC FURNACES; ELECTRIC FURNACES; PLASMA FURNACES; VACUUM FURNACES
Physical modeling of joule heated ceramic glass melters for high level waste immobilization. (E51). 480851
nuclear fuels 482587
Universal high-temperature heat treatment furnace for FBR mixed uranium and plutonium carbide fuel. (E15).
specifications 461521
Sintering furnace for remote fuel fabrication. (E15).
- FUSED SALT FUELS:**
See MOLTEN SALT FUELS
- FUSED SALTS:**
See MOLTEN SALTS
- FUSES (REACTOR SAFETY):**
See REACTOR SAFETY FUSES
- FUSION (BONDING, NONMETALLIC):**
See BONDING
- FUSION (MELTING):**
See MELTING
- FUSION (WELDING):**
See WELDING
- FUSION REACTIONS (ENDOENERGETIC):**
See HEAVY ION FUSION REACTIONS
- FUSION REACTIONS (EXOENERGETIC):**
See THERMONUCLEAR REACTIONS
- FUSION REACTORS:**
See THERMONUCLEAR REACTORS
- FUSION-REACTOR MATERIALS:**
See THERMONUCLEAR REACTOR MATERIAL
- F2 LAYER:**
daily variations 469550
Calculated daily variations of O⁺ and H⁺ at mid-latitudes. (B33, A15). [Data]
ion-molecule collisions
Charge exchange of metastable ²D oxygen ions with molecular oxygen: A new source of thermospheric O₂⁺ ions. (B33, A12). [Data] 465860
- G RESONANCES:**
See RHO-1670 RESONANCES
- GADOLINIUM:**
absorption spectra 485593
Optical properties of bulk gadolinium in the range 0.5 to 3.1 eV. (A13).
activation analysis 460425
Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions).
adsorption 480874
Radionuclide sorption studies on abyssal red clays. (E52). [Data]
chromatography 472357
Metal-ion chelation chromatography on silica-immobilized 8-hydroxyquinoline. (B11). [Data]
crystal growth 479353
Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24).
electric conductivity 462241
Critical behaviour of the electrical resistivity at the spin reorientation transition of pure gadolinium. (A13). [Data]
electron microscopy 474787
Electron microscopy of evaporated and sputtered Gd/Co and Ho/Co films. (A13).
electron spin resonance 488961
Effect of dilute Dy substitution on the Gd electron spin resonance in Gdsub(0.5)Ysub(0.5)Ir₂. (A13).
Relaxation narrowing of Gd in cubic Van-Vleck compound. (A13). 492601
energy levels 492507
Isotope shifts in odd and even energy levels of the neutral and singly ionised gadolinium atom. (A12). [Data]
magnetic properties 479493
Magnetic ordering of Gd/sub x/Er/sub 1-x/Rh₄B₄ near the superconducting region. (B23, A17).
Phonon spectroscopy and forbidden transitions in rare earths and transition metal ferromagnets. (B22). 479373
magnetic susceptibility
AC susceptibility and temperature modulation studies of gadolinium. (A13). [Data] 471581
muon probes 474837
On the hyperfine fields at a positive muon in Gd and Dy. (A13).
neutron activation analysis 483950
Assay of trace quantities of gadolinium in a manganese bath solution using neutron activation analysis. (B11).
photon activation analysis 483955
The use of photon activation analysis for the determination of Sm, Eu, Gd and Dy in boron carbide. (B11). [Data]
physical radiation effects 469420
Defect annealing in the hexagonal close packed heavy rare earth metals Gd, Tb, Dy, Ho, Er, Tm and Lu after electron irradiation at low temperatures. (B25). [Data]
- quantitative chemical analysis
Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676
reflection 477936
Thermoreflectance of single crystal Gd. (A13).
solvent extraction
Distribution ratios and empirical equations for the extraction of elements in purex high level waste solution. (B12, B13). [Data] 460532
Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704
specific heat 469271
Magnetic contribution to the specific heats of gadolinium, dysprosium and erbium. (B22).
spin orientation 483241
Research with the EN Tandem accelerator. (A13, A34).
tantalum additions
The magnetic hyperfine field and the electric field gradient at ¹⁸¹Ta impurities in Gd metal. (A13). 467417
titration 483957
Titration of binary mixtures of rare earth metals based on magnetic susceptibility measurements. (B11).
zone refining 486845
Zone refining of rare earth metals. II. (B21).
- GADOLINIUM ALLOYS:**
Comments on 'Magnetic anisotropy of RE₂(Fe,Co)₁₇ detected by the singular point detection technique. (B22). 460736
absorption spectra 481037
Chemical shifts of the L₃-absorption edge of Pt in the rare earth-platinum intermetallic compounds. (A12).
anisotropy
Microscopic and macroscopic inhomogeneity of magnetization and anisotropy in amorphous rare earth/transition metal films. (B22). [Data] 481812
catalysis 479384
Intermetallic compounds as catalysts for hydrogenation of carbon oxides. (B22).
charged-particle transport 486177
LAMPF results on μ⁺ diffusion in metals. (A32, B22; Depolarization rate). [Data]
chemical shift 481037
Chemical shifts of the L₃-absorption edge of Pt in the rare earth-platinum intermetallic compounds. (A12).
crystal field 481847
Limited quenching of the holmium moment by the crystal field in the (Gd,Y)Ni₂ cubic Laves phase compounds. (B22).
crystal lattices
Structural and magnetic properties of Gd(Cosub(x)Irsup(1-x))₂. (A13). [Data] 471444
diffusion 479394
Atomic diffusion in amorphous Gd-Fe thin films. (B22).
domain structure 490587
Amorphous GdNdFe bubble films with good temperature characteristics. (B22).
electric conductivity 479376
Magnetic and electrical properties of amorphous alloys of Gd and C, Al, Ca, Ni, Cu, Rh, or Pd. (B22).
electron spin resonance 488961
Effect of dilute Dy substitution on the Gd electron spin resonance in Gdsub(0.5)Ysub(0.5)Ir₂. (A13).
ESR bottleneck of Er and Dy-doped GdAl₂. (A13). 477861
electronic structure 467367
Band structure and atomic radius of Gd-La alloys. (A13).
ferromagnetism 465579
Magnetic behavior of iron in ternary gadolinium-yttrium compounds. (B22). [Data]
Magnetic behaviour of the intermetallic system Gd₂Nisub(17-x)Alsub(x). (A13). 471528
ferromagnetism
NMR study on the coexistence of superconductivity and ferromagnetism in (Ce sub(1-x)Gd sub(x))Ru₂. (A17). [Data] 471950
magnetic moments 481062
The magnetic moment of iron in Gd-Fe intermetallic compounds. (A13).
Structural and magnetic properties of Gd(Cosub(x)Irsup(1-x))₂. (A13). [Data] 471444
magnetic properties 479370
Evidence for easy axis rotation in Dy/sub 1-x/Gd/sub x/Al₂ alloys from nuclear hyperfine field measurements. (B22).
FMR measurement of anisotropy dispersion in amorphous GdFe films. (B22). 479456
Magnetic interactions in R_mMn₂ rare earth intermetallics. (B22). 479383
Magnetic properties of R₃Pt₄ intermetallic compounds. (B22). 479392
Microstructure and magnetism in amorphous rare-earth-transition-metal thin films. II. Magnetic anisotropy. (B22). 479419
Nature of perpendicular anisotropy in sputtered GdCo thin films. (B22). 479403
Significance and interpretation of magnetic anisotropy measurements in amorphous Gd-Co films. (B22). 462890
Stress induced anisotropy in amorphous Gd-Fe and Tb-Fe sputtered films. (B22). 479460
Temperature dependence of the magnetic parameters in the Sm/sub 2-x/Gd/sub x/Co/sub 17-y/Mn/sub y/ compounds. (B22). 479367
Ternary and quaternary rare earth cobalt magnetic materials with low reversible temperature coefficients. (B22). 479399
magnetization 481847
Limited quenching of the holmium moment by the crystal field in the (Gd,Y)Ni₂ cubic Laves phase compounds. (B22).

- Magnetic and electrical properties of amorphous alloys of Gd and C, Al, Ca, Ni, Cu, Rh, or Pd. (B22). 479376
- Magnetic properties of $Gd_{sub}(x)Y_{sub}(1-x)Fe_{sub}(3)$ type intermetallic compounds. (B22). 460729
- Microscopic and macroscopic inhomogeneity of magnetization and anisotropy in amorphous rare earth/transition metal films. (B22). 481812
- [Data]**
On the magnetic properties of $Gd(Fesub(1-x)Alsub(x))_2$ compounds. (A13). **[Data]** 462165
- Specific heat, magnetisation and stability of canted structure in $GdMg$ and related compounds. (A13). **[Data]** 481142
- Temperature dependence of the magnetic aftereffect in $Gd-Co$ films. (B22). 476242
- magnetoresistance**
Magnetoresistivity of $(La, Gd)Al_2$ dilute alloys. (B22). 486870
- magnetostriction**
Monoionic model and magnetostriction of terbium and its alloys with gadolinium. (B22). 490614
- Spin reorientation in magnetic field directed along hard magnetization axis in terbium-gadolinium alloys. (B22, A13). 486906
- paramagnetism**
Magnetic behaviour of the intermetallic system $Gd_2Ni_{sub}(17-x)Al_{sub}(x)$. (A13). 471528
- specific heat**
Low temperature specific heat of $Th-Gd$ spin glass. (A13). **[Data]** 462238
- Specific heat, magnetisation and stability of canted structure in $GdMg$ and related compounds. (A13). **[Data]** 481142
- superconductivity**
Magnetic ordering of $Gd/sub x/Er/sub 1-x/Rh_4B_4$ near the superconducting region. (B22, A17). 469213
- NMR study on the coexistence of superconductivity and ferromagnetism in $(Ce sub(1-x)Gd sub(x))Ru_2$. (A17). **[Data]** 471950
- thermodynamic properties**
Phase composition and thermodynamic properties of gadolinium-aluminium alloys. (B22). 493972
- GADOLINIUM BORIDES:**
- magnetic moments**
Magnetic interactions in ternary superconductors. (A17, B24). 475497
- magnetic properties**
High pressure study of the superconducting and magnetic transitions of $Ersub(1-x)Gdsub(x)Rh_4B_4$. (B24, A17). 472715
- Magnetic interactions in ternary superconductors. (A17, B24). 475497
- transition temperature**
High pressure study of the superconducting and magnetic transitions of $Ersub(1-x)Gdsub(x)Rh_4B_4$. (B24, A17). 472715
- GADOLINIUM BROMIDES:**
- lattice parameters**
Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- lattice vibrations**
Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). **[Data]** 478899
- valence**
Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- GADOLINIUM CARBIDES:**
- magnetic properties**
Magnetic properties of the system GdC_2-DyC_2 . (B23). 486970
- GADOLINIUM CHLORIDES:**
- chemical preparation**
Preparation and purification of $GdCl_3$. (B12). 486616
- chemical reactions**
Interaction of rare-earth chlorides with aluminium chlorides during rare element raw materials processing. (B12). 479002
- lattice parameters**
Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- lattice vibrations**
Mean amplitudes of vibration of the hexachloro- and hexabromo-anions of some lanthanides. (B12). **[Data]** 478899
- quantitative chemical analysis**
Determination of light lanthanides by the method of atomic absorption spectrometry. (B11). 493510
- solubility**
Gadolinium chloride, water and cyclohexylamine and ethylcyclohexylamine chlorides systems. (B12). 465372
- Gadolinium chloride, water and butylamine and dibutylamine chlorides systems. (B12). 465436
- valence**
Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- GADOLINIUM COMPLEXES:**
- chemical preparation**
Uranyl and lanthanide complexes of the 1,2-dipyridylethylene isomers. (B12, B13). **[Data]** 481690
- chemical reaction kinetics**
Formation constants of chelates of 7-bromo-8-hydroxy-quinoline-5-sulphonic acid with yttrium and some lanthanides. (B12). 462711
- formation free energy**
Potentiometric studies on the ternary systems: rare earth metal ions - cyclohexanediamine tetra-acetic acid - dicarboxylic acids. (B12). 460484
- lattice parameters**
Crystallographic data of 4,4'-bipyridine complexes with some lanthanides(3) and Cu(2). (B12). 462695
- precipitation**
The precipitation of lanthanide elements complexes with hexamine cobalt(III) cation. (B12). **[Data]** 468838
- The precipitation of the lanthanide elements complexes with hexamine cobalt(III) cation. (B12). **[Data]** 468837
- solvent extraction**
Extraction of lanthanoids from hydrochloric and nitric acid solutions by $Di(2-ethylhexyl)phosphoric$ acid. (B12). **[Data]** 475963
- stability**
Electrometric studies of some rare earth metal complexes with phloracetophenone. (B12). 460435
- Studies on lanthanides. Stability constants and thermodynamic functions for the formation of some lanthanides(III) CPTA complexes. (B12). 460512
- Thermodynamic functions and stability constants of rare earths with monothiodibenzoylmethane. (B12). **[Data]** 481695
- valine**
Complexation reaction of metal ions with peptide systems. II. (B12). 484055
- GADOLINIUM COMPOUNDS:**
See also GADOLINIUM BORIDES; GADOLINIUM BROMIDES; GADOLINIUM CARBIDES; GADOLINIUM CHLORIDES; GADOLINIUM HYDRIDES; GADOLINIUM OXIDES; GADOLINIUM PERCHLORATES; GADOLINIUM PHOSPHATES; GADOLINIUM SELENIDES; GADOLINIUM SULFIDES
- chemical preparation**
Solid solutions of gadolinium and ytterbium chromito-aluminates. (B12). 484025
- crystal growth**
Growth of $NaLn(WO_4)_2$ ($Ln=La, Nd$ and Gd) single crystals from the ternary system $Ln_2O_3-WO_3-Na_2CO_3$. (B12). **[Data]** 476042
- Synthesis of solid solution monocrystals in the $Resub(3-x)Casub(x)Gasub(5-x)Zrsub(x)Osub(12)$ system ($0 < x \leq 0.5$ and $Re-Gd, Sm, Eu$). (B12). 468846
- dislocations**
Defects in gadolinium molybdate monocrystals and their connection with crystallization conditions. (B12). 468823
- electric conductivity**
Magnetic and transport properties of some light rare earth tungstates. (B12). 462699
- electric fields**
Electric-field gradients in ionic gadolinium compounds. (A13). 488948
- electron spin resonance**
 Gd^{3+} ions ESR in lanthanum perhenate $La(ReO_4)_4 \cdot 4H_2O$. (B12). 465352
- Investigations of EPR superhyperfine structure for the cubic Gd^{3+} center in CdF_2 . (A12). 474583
- hyperfine structure**
Investigations of EPR superhyperfine structure for the cubic Gd^{3+} center in CdF_2 . (A12). 474583
- magnetic susceptibility**
Field dependence of magnetic susceptibility of Y-Gd garnets. (A13). 474878
- Magnetic and transport properties of some light rare earth tungstates. (B12). 462699
- magnetization**
Studies of the rare earth-iron interactions in the orthoferrites $GdFeO_3$ and $HoFeO_3$. (A13). 474879
- moessbauer effect**
Moessbauer spectroscopy of the $Gd(AlFe)_2$ metallic. (A13). 471425
- phase transformations**
Defect structure and phase transformations in $LiR(MoO_4)_2$, where $R=Nd, Gd$. (A13). 462192
- Study on magnetic phase transformations by nuclear gamma resonance on ^{57}Fe nuclei. (A13). 492566
- regulating rods**
Uses of Gd-containing glasses, glass ceramics, and ceramics. (B23, E24). 484284
- zirconates**
Energy transfer from Gd^{3+} to Tb^{3+} and Eu^{3+} . (A12). 483142
- GADOLINIUM HYDRIDES:**
- crystal growth**
The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). **[Data]** 467414
- electric conductivity**
Electric resistance anomalies in samarium and gadolinium hydrides at high pressures. (B23). 476356
- microstructure**
The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). **[Data]** 467414
- GADOLINIUM IONS:**
- cesium fluorides**
ESR investigation of Gd^{3+} substituted for Ca^{2+} in $RbCaF_3$ and $CsCaF_3$: a) $O_{sub}(h)$ six-fold coordinated sites b) distorted tetragonal site below $T_{sub}(c)$ in $RbCaF_3$. (A13). 477857
- electron spin resonance**
Electron paramagnetic resonance of Mn^{2+} and Gd^{3+} in $Nd_2Zn_3(NO_3)_{12} \cdot 24H_2O$ single crystals. (A13). 459808
- ESR of Gd^{3+} in distorted sites by charge compensation in AMF_3 crystals: a) n.n M vacancy and O^{2-} substituted for n.n F^- b) Sensitivity of the $Gd^{3+}O^{2-}$ pair to the structural phase changes of $RbCaF_3$. (A13). 477858
- energy levels**
Isotope shifts in odd and even energy levels of the neutral and singly ionised gadolinium atom. (A12). **[Data]** 492507

- energy transfer**
Energy transfer from Gd^{3+} to Tb^{3+} and Eu^{3+} . (A12). 483142
- luminescence**
The intermediate role of Gd^{3+} in the energy transfer from a sensitizer to an activator. (A12). 459732
- rubidium fluorides**
ESR investigation of Gd^{3+} substituted for Ca^{2+} in $RbCaF_3$ and $CsCaF_3$; a)Sub(h) six-fold coordinated sites b)distorted tetragonal site below $Tsub(c)$ in $RbCaF_3$. (A13). 477857
- GADOLINIUM ISOTOPES:**
See also GADOLINIUM 144; GADOLINIUM 145; GADOLINIUM 146; GADOLINIUM 147; GADOLINIUM 148; GADOLINIUM 149; GADOLINIUM 151; GADOLINIUM 153; GADOLINIUM 154; GADOLINIUM 155; GADOLINIUM 156; GADOLINIUM 157; GADOLINIUM 158; GADOLINIUM 159
- nuclear deformation**
Relation of the deformation energy of nuclear ground states with experimental characteristics of the rotational bands. (A33; 152 < Λ < 192). 490042
- GADOLINIUM OXIDES:**
- ceramography**
Homogeneity determination of $(U,Gd)_2O_3$ mixed oxide sintered bodies. (B23, E23). 484285
- chemical composition**
Homogeneity determination of $(U,Gd)_2O_3$ mixed oxide sintered bodies. (B23, E23). 484285
- crystal structure**
Preparation and structure of some Ln_2MoO_7 oxides. (B12). 462719
- interatomic distances**
Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
- neel temperature**
Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561
- photoelectron spectroscopy**
Spin state of the CO^{3+} ion in $RCoO_3$ compounds with the $GdFeO_3$ structure. (A13). 481128
- specific heat**
Specific heat of a quasi-degenerated magnetic semiconductor. (A13). 467375
- uranium dioxide**
Method to determine the gadolinium content in nuclear fuels and equipment to perform the method. (E23). 473807
- GADOLINIUM PERCHLORATES:**
- infrared spectra**
IR-spectra of thiocarbamide complexes of cadmium and rare earth perchlorates. (B12). [Data] 493556
- GADOLINIUM PHOSPHATES:**
- chemical composition**
Chemistry of gadolinium phosphates. (B12). 478997
- GADOLINIUM SELENIDES:**
- compatibility**
Compatibility of Pt-3008 with selected components of the selenide isotope generator system. (D14, A16). 480292
- phase studies**
Heat capacities and phase analysis of the superconductive compounds $Mosub(6+y_0)Se_8$ and $Gdsub(x_0)Mosub(6+y_0)Se_8$. (B24, B22). 484297
- specific heat**
Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- Heat capacities and phase analysis of the superconductive compounds $Mosub(6+y_0)Se_8$ and $Gdsub(x_0)Mosub(6+y_0)Se_8$. (B24, B22). 484297
- superconductivity**
Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- GADOLINIUM SULFIDES:**
- neutron diffraction**
A neutron diffraction study of the coexistence of antiferromagnetism and superconductivity in $GdMo_6S_8$. (A13). 492667
- phase transformations**
Antiferromagnet-ferromagnet and semiconductor-metal phase transformations in gadolinium sesquisulfide. (A13). 492559
- specific heat**
Low temperature heat capacities of rare earth sesquisulfides. (B24). 479525
- GADOLINIUM 144:**
- high spin states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- yrast states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- GADOLINIUM 145:**
- energy levels**
In-beam studies of ^{145}Gd and ^{145}Eu . (A32). 464931
- GADOLINIUM 146:**
- de-excitation**
Particle hole yrast states in ^{146}Gd and ^{147}Gd and the $Z = 64$ shell closure. (A34). [Data] 472267
- energy levels**
Excitation energy of the lowest 2^+ and 3^- levels in ^{146}Gd and ^{146}Gd . (A33). 460276
- Particle hole yrast states in ^{146}Gd and ^{147}Gd and the $Z = 64$ shell closure. (A34). [Data] 472267
- Radiochemical investigations of nuclear properties. Progress report, October 1, 1977 - December 31, 1978. (A34; Summaries of research activities at Purdue Univ.). 475794
- excited states**
Magnetic moments of isomeric states in ^{146}Gd . (A34). [Data] 468504
- high spin states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- nuclear magnetic moments**
Magnetic moment of the 7^- state in the doubly magic nucleus ^{146}Gd . (A34). 465161
- yrast states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- GADOLINIUM 147:**
- de-excitation**
Particle hole yrast states in ^{146}Gd and ^{147}Gd and the $Z = 64$ shell closure. (A34). [Data] 472267
- energy levels**
Particle hole yrast states in ^{146}Gd and ^{147}Gd and the $Z = 64$ shell closure. (A34). [Data] 472267
- energy-level density**
Collective and noncollective excitations in odd-even $N = 83$ nuclei. (A33). [Data] 465067
- gamma decay**
Gamma spectra measured in the geometry when a radiation source is placed closely to a detector. ^{147}Gd decay. (A34). 483879
- high spin states**
Collective and noncollective excitations in odd-even $N = 83$ nuclei. (A33). [Data] 465067
- yrast states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- GADOLINIUM 148:**
- high spin states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- yrast states**
g factors of high-spin yrast traps in /sup 146,147/Gd. (A34). 490173
- GADOLINIUM 149:**
- alpha decay**
Investigation of $^{149}Gd \rightarrow ^{149}Eu$ radioactive decay. (A34). [Data] 493468
- beta-plus decay**
Investigation of $^{149}Gd \rightarrow ^{149}Eu$ radioactive decay. (A34). [Data] 493468
- GADOLINIUM 151:**
- energy-level transitions**
Estimation of radiation characteristics of 10 widely used radionuclides with complex decay scheme. (A33; ^{52}Mn , ^{75}Se , sup(110m)Ag, ^{121}I , ^{131}Ba , ^{132}Cs , ^{151}Gd , ^{152}Sm , ^{183}Re , ^{232}U , Esub(γ)=21-1434 keV). 493154
- isotope production**
Production of ^{151}Gd . (A34). 490194
- nuclear structure**
Shape coexistence in ^{151}Gd . (A33). 475777
- potential energy**
Shape coexistence in ^{151}Gd . (A33). 475777
- GADOLINIUM 152 TARGET:**
- carbon 12 reactions**
Search for high-spin isomeric states in the rare-earth region. (A34). 490175
- GADOLINIUM 153:**
- half-life**
The isomeric $9/2^+$ and the lowest $7/2^-$ state in the weakly deformed $N=89$ nuclei. (A34). 475821
- GADOLINIUM 154:**
- energy levels**
Nuclear data sheets for $A=154$. (A33). 478631
- energy-level transitions**
Nuclear data sheets for $A=154$. (A33). 478631
- nuclear structure**
Band mixing in doubly-even nuclei at the beginning of the rare-earth region. (A33). 481474
- GADOLINIUM 154 TARGET:**
- carbon 12 reactions**
Search for high-spin isomeric states in the rare-earth region. (A34). 490175
- neutron reactions**
Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J,π , 2 and 24 keV). 472291
- GADOLINIUM 155:**
- energy levels**
Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J,π , 2 and 24 keV). 472291
- excited states**
Excited states in ^{155}Gd . (A34). 465221
- Influence of Coriolis coupling on inelastic scattering of deuterons. (A33, A34). [Data] 475752
- magnetic fields**
Measurements of magnetic fields acting on ^{155}Gd nuclei in the gadolinium matrix by means of the perturbed angular correlation technique. (A13). 492587
- Measurements of the $^{155}GdFe$ magnetic fields for different temperatures. (A13). 492588
- GADOLINIUM 156:**
- magnetic dipole moments**
Current densities in the projected Hartree-Fock approach. I. Magnetic moments. (A33). 490089
- multipole transitions**
Nuclear orientation of ^{156}Tb in gadolinium matrix. (A34). 475798
- nuclear structure**
Band mixing in doubly-even nuclei at the beginning of the rare-earth region. (A33). 481474

GADOLINIUM 156 TARGET:

neutron reactions

- Experimental aspects of the statistical theory of nuclear spectra fluctuations. (A34). 460329
- Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J, π , 2 and 24 keV). 472291

GADOLINIUM 157:

energy levels

- Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J, π , 2 and 24 keV). 472291

excited states

- Experimental aspects of the statistical theory of nuclear spectra fluctuations. (A34). 460329
- Influence of Coriolis coupling on inelastic scattering of deuterons. (A33, A34). [Data] 475752

hyperfine structure

- Hyperfine structure in the Gd II spectrum and the nuclear electric quadrupole moment of ^{157}Gd . (A12). [Data] 467183

GADOLINIUM 157 TARGET:

neutron reactions

- Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J, π , 2 and 24 keV). 472291

GADOLINIUM 158:

energy levels

- Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J, π , 2 and 24 keV). 472291

GADOLINIUM 158 TARGET:

alpha reactions

- A calculation of γ -ray spectra following α -induced fusion reactions. (A33). 460298
- Description of gamma-ray spectra following (α ,xn)-reactions. (A33). 490077
- Multiplicity experiments with α and ^{12}C induced reactions. (A34). 490252
- Observation of neutrons preceding the quasi-continuum γ -ray cascade in $^{158}\text{Gd}(\alpha, \text{xn})$ reactions. (A34). 490253

neutron reactions

- Measurements and calculations of the cross sections for excitation Sm and Gd collective states in inelastic scattering of low energy neutrons. (A34). 493398
- Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J, π , 2 and 24 keV). 472291

triton reactions

- Single-proton states in ^{157}Eu and ^{159}Eu studied with the ($t(\text{pol}),\alpha$) reaction. (A34). 472239

GADOLINIUM 159:

energy levels

- Resonance-averaged (n, γ) spectra and their applications to nuclear structure. (A34; J, π , 2 and 24 keV). 472291

GADOLINIUM 160 TARGET:

alpha reactions

- A calculation of γ -ray spectra following α -induced fusion reactions. (A33). 460298
- Description of gamma-ray spectra following (α ,xn)-reactions. (A33). 490077
- Multiplicity experiments with α and ^{12}C induced reactions. (A34). 490252

carbon 12 reactions

- Cross sections for 3α -particle breakup of ^{12}C deduced from α -multiplicity measurements. (A34). 490255
- Incomplete fusion in $^{12}\text{C} + ^{160}\text{Gd}$ collisions interpreted in terms of a generalized concept of critical angular momentum. (A34). 490239
- Incomplete fusion in $^{12}\text{C} + ^{160}\text{Gd}$ collisions. (A34). 490238

neutron reactions

- Measurements and calculations of the cross sections for excitation Sm and Gd collective states in inelastic scattering of low energy neutrons. (A34). 493398

oxygen 16 reactions

- Fast α production by projectile break-up in $^{16}\text{O} + ^{160}\text{Gd}$ collision at $E_{\text{sub}}(^{16}\text{O}) = 150$ MeV. (A34). 490191

triton reactions

- Single-proton states in ^{157}Eu and ^{159}Eu studied with the ($t(\text{pol}),\alpha$) reaction. (A34). 472239

GAGES (PRESSURE):

See PRESSURE GAGES

GAGES (STRAIN):

See STRAIN GAGES

GAIN:

proportional counters

- Microdosimetric study with cylindrical walled and wall-less proportional counters. (C11, C55). 460971

GALACTIC EVOLUTION:

- Color-absolute magnitude relation for E and S0 galaxies. III. Fully corrected photometry for 405 galaxies: comparison of color distributions for E and S0 field and cluster galaxies. (A15; Virgo, coma, centaurus, and fornax clusters). 475397
- Cosmology and galaxy formation. (A15). 460115
- Efficiency of galaxy formation and gravitational clustering. (A15). 489619
- The evolution of galaxies: evidence from optical observations. (A15). 478349
- Relative abundances in metal-poor stars. II. The carbon-to-iron ratio. (A15). 475377
- Secondary peak in clusters of galaxies - a clue to their formation. (A15). 464555
- Ultraviolet spectra and color evolution of galaxies at large redshifts. (A15). 460132

color

- On the origin and evolution of pairs of galaxies that have different physical and kinematic characteristics. (A15). 478326

configuration

- Morphological survey of bar, lens, and ring components in galaxies: Secular evolution in galaxy structure. (A15). 464602

cosmological models

- The epoch of galaxy formation. (A15). 478268
- Evolution of density fluctuations during recombination. (A15). 475201

- Galactic evolution. (A15). 478312
- Integrated colors in the solar neighborhood. (A15). 467868

- A model of pregalactic evolution. (A15). 492909
- Non-linear effects in flat gravitating systems. (A15). 478244

- Nonparametric statistics of the quasar hubble diagrams. (A15). 481315

- A test of the tidal hypothesis for the origin of galactic angular momentum. (A15). 462478

density

- A confrontation of density wave theories with observations. (A15). 467842

element abundance

- Galactic evolution. (A15). 478312

elliptical configuration

- Elliptical galaxies and the galaxy evolution. (A15). 471823

gravitation

- Non-linear effects in flat gravitating systems. (A15). 478244

kinetics

- Enriched gas in clusters and the dynamics of galaxies and clusters: implications for theories of galaxy formation. (A15). 467762

many-body problem

- N-body simulations of galaxy clustering. I. Initial conditions and galaxy collapse times. (A15). 489387

mathematical models

- Angular momentum redistribution by spiral waves in computer models of disc galaxies. (A15). 471912

- Metal abundance range in the Draco dwarf galaxy. (A15). 475452

nucleosynthesis

- Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292

planetary nebulae

- Planetary nebulae and chemical evolution of the Galaxy. (A15). 471924

radial velocity

- On the origin and evolution of pairs of galaxies that have different physical and kinematic characteristics. (A15). 478326

spiral configuration

- On a mechanism that structures galaxies. (A15). 462459

star evolution

- Rates of star formation. (A15). 460090
- Star formation and the gas content of galaxies. (A15). 460062

turbulence

- On a closure hypothesis in the theory of cosmic turbulence. (A15). 481294

GALAXIES:

- See also MAGELLANIC CLOUDS; MARKARIAN GALAXIES; MILKY WAY; RADIO GALAXIES; SEYFERT GALAXIES; X-RAY GALAXIES
- A classification of galactic collisions for galaxies of unequal dimensions. (A15). 489620
- The galactic structure in EUV (results and future programmes). (A15). 483565
- Galaxies with long tails. (A15). 483568
- Galaxies with ultraviolet continuum. X. (A15). 475344
- Interacting galaxies. (A15). 467833
- Musings on galaxy classification. (A15). 460141
- The peculiar spiral galaxy NGC 4258. (A15). 467735
- Qualitative and quantitative classifications of galaxies. (A15). 460047
- Quasar absorption lines as probes of the past intergalactic medium. (A15; Halos). 460120
- Rotation, mass and surface brightness of the galaxy VV8. (A15). 478298

angular momentum

- Distribution of the angular momentum in the Galaxy and M31. (A15). 464567

- A test of the tidal hypothesis for the origin of galactic angular momentum. (A15). 462478

angular momentum transfer

- Angular momentum redistribution by spiral waves in computer models of disc galaxies. (A15). 471912

- Angular momentum transport and secular change of gas distribution near the corotation resonance by a bar. (A15). 475316

background radiation

- The large-scale radio continuum structure of spiral galaxies. (A15). 467854

black holes

- Supermassive black holes in galactic nuclei. (A15). 478364

brightness

- Compact galaxies in the vicinity of the A 193 galaxy cluster. (A15). 475192

- Equidensitometric determination of angular diameters and mean surface magnitudes of compact galaxies. (A15). 478261

- A jet associated with M89. (A15). 460093
- Surface brightness and color distributions of elliptical and S0 galaxies in the Coma cluster. (A15). 460134

chemical composition

- Observations and interpretations of radial gradients of absorption features in galaxies. (A15). 478221

- circular configuration**
Frequency of appearance of ring galaxies and probability of formation of some types of ring structures by collisions. (A15). 489470
- collisions**
Dynamical friction in colliding galaxies. (A15). 467732
Mergers and some consequences. (A15). 460138
- color**
The results of observations of double galaxies in the UB_V system. (A15). 478350
Surface brightness and color distributions of elliptical and S0 galaxies in the Coma cluster. (A15). 460134
Ultraviolet spectra and color evolution of galaxies at large redshifts. (A15). 460132
- configuration**
Dynamics of a stellar bar. (A15). 464627
Morphological survey of bar, lens, and ring components in galaxies: Secular evolution in galaxy structure. (A15). 464602
Neutral hydrogen observations of the CVn I group. (A15). 492855
- coordinates**
NGC-1199. (A15). 467744
- correlation functions**
The autocorrelation analysis of deep galaxy samples. (A15). 478321
- cosmic gases**
Formation and confinement of dense clouds in QSOs and active galactic nuclei. (A15). 464620
High velocity clouds: galactic or extragalactic. (A15). 467818
Hot gas in the galaxy: how extensive is it. (A15). 467935
Nitrogen over abundance in the interstellar gas of the core of NGC 6946 galaxy. (A15). 462411
Star formation and the gas content of galaxies. (A15). 460062
- cosmic radio sources**
Mean surface brightness and radio emission of galaxies. (A15). 475175
- cosmic x-ray sources**
X-ray observations of high-excitation emission-line galaxies with the HEAO 1 scanning modulation collimator. (A15). 489503
- cosmological models**
Bi-orthogonalization of Toomre's surface-density functions for flat galaxies. (A15). 475173
NGC 5291: a massive, gas-rich and highly peculiar lenticular in the IC 4329 cluster. (A15). 481284
On a mechanism that structures galaxies. (A15). 462459
Tidal interactions in the expanding universe: the formation of prolate systems. (A15). 481246
- distance**
Consequences of varying G. (A11). 459664
- distribution**
Nearby small groups of galaxies. (A15). 478353
- disturbances**
Axisymmetric disturbances in a disk galaxy. (A15). 475353
- elliptical configuration**
What spatial shape have elliptical galaxies. (A15). 467849
- emission spectra**
Detection of strong H₂O emission from galaxy NGC4945. (A15). 462475
Emission from the nuclei of nearby galaxies: evidence for massive black holes. (A15). 467918
Observable properties or primeval giant elliptical galaxies of ten million orions at high redshift. (A15). 467946
- emission spectroscopy**
A peculiar galaxy system in Hydra. (A15). 475255
- energy spectra**
Observations and interpretations of radial gradients of absorption features in galaxies. (A15). 478221
- environment**
The evolution of disk galaxies. (A15). 467945
- equations of motion**
Discrete symmetric dynamical systems at the main resonances with applications to axis-symmetric galaxies. (A15). 462487
- explosions**
Possible explosion in the NGC 2685 galaxy. (A15). 464575
- faraday effect**
Faraday rotation in galaxies absorption lines of quasars. (A15). 467848
- galactic evolution**
"Hidden masses" and dynamical evolution of stellar systems. (A15). 475172
Can mergers make slowly rotating elliptical galaxies. (A15). 485942
- galaxy clusters**
On contractions of galaxies in the A 193 and A 2255 clusters. (A15). 467841
- galaxy nuclei**
On the nuclei of the barred galaxies NGC 1365 and NGC 1512. (A15). 467862
Physical conditions in galaxy nuclei with emission lines. (A15). 492969
- gamma spectroscopy**
Gamma-ray line astronomy. (A15). [Data] 462471
- gravitational collapse**
N-body simulations of galaxy clustering. I. Initial conditions and galaxy collapse times. (A15). 489387
Six collapses. (A15). [Data] 464628
- gravitational interactions**
Gravitational effects of M32 on the spiral arm pattern of M31. (A15). 475216
- hamiltonians**
Discrete symmetric dynamical systems at the main resonances with applications to axis-symmetric galaxies. (A15). 462487
- hubble effect**
Future of the universe. (A15). 489608
- hydrogen**
Material in the vicinity of galaxies. (A15). 467774
A search for intergalactic hydrogen clouds in the vicinity of nearby dwarf galaxies. (A15). 481290
Three-dimensional distribution of neutral hydrogen in M31. (A15). 467964
- h1 regions**
Aperture-synthesis observations of H I in the galaxy M82. (A15). 475243
Gravitational effects of M32 on the spiral arm pattern of M31. (A15). 475216
The large-scale distribution of H I in M33 and IC342. (A15). 467750
Neutral hydrogen in early-type galaxies in the Virgo cluster. (A15). 460086
Observations of high velocity H I clouds in the local group. (A15). 478265
A sensitive single-dish H I-survey of the galaxy M33. (A15). 467832
The unusual kinematics of the galaxy IC 10. (A15). 475236
A warp in the H I distribution at the extreme NE and SW of M31. (A15). 467806
- infrared radiation**
Infrared luminosity/H I velocity-width relation and its application to the distance scale. (A15). 489386
Photometric studies of composite stellar systems. III. UBVR and JHK observations of E and S0 galaxies. (A15). [Data] 464638
- instability**
Global gravitational instability of disk galaxies. (A15). 467837
Global gravitational instability of gaseous disks. (A15). 467948
- intergalactic space**
Interactions between intergalactic medium and galaxies. (A15). 464563
- interstellar grains**
Dust-to-gas ratio in disk galaxies. (A15). 489536
- jets**
The accretion wake model of galactic and quasar jets in clusters. (A15). 481321
- kinetics**
Supermassive black holes in galactic nuclei. (A15). 478364
- luminosity**
Distribution of galaxies around rich clusters and the clustering of radio sources. (A15; Correlation-function technique). 460124
The field luminosity function and nearby groups of galaxies. (A15). 478264
The galactic neighbourhood. (A15). 478346
Galaxies of low surface brightness in clusters and groups. (A15). 493010
Infrared luminosity/H I velocity-width relation and its application to the distance scale. (A15). 489386
Optical studies of small groups of galaxies. (A15). 478354
The scatter in mass-to-luminosity ratios. (A15). 478238
- magnetic fields**
Origin of magnetic fields and superdense cosmogony. (A15). 467885
- maps**
Neutral hydrogen observations of the CVn I group. (A15). 492854
- mass**
Hypergalaxies. (A15). 464564
Mass distribution in the M31. (A15). 464565
The scatter in mass-to-luminosity ratios. (A15). 478238
- mathematical models**
Can mergers make slowly rotating elliptical galaxies. (A15). 485942
Efficiency of galaxy formation and gravitational clustering. (A15). 489619
Regularization method applied to constructing mass distribution models in galaxies. (A15). 467856
Stellar hydrodynamics of thin disk galaxies. (A15). 464592
- mechanics**
The dynamics of the spiral galaxy M81. (A15). 467958
Encounters of spherical galaxies: N-body simulations and comparison with theoretical predictions. (A15). 478208
The frequency of ring galaxies and the probability of their formation by collisions. (A15). 478233
Interacting systems. (A15). 478351
On the tidal origin of M51-type systems. (A15). 478358
- missing mass**
Galaxy holes and the missing mass problem. (A15). 467756
- molecules**
Radio observations of molecules in nearby galaxies. (A15). 467965
- nucleosynthesis**
Observational limits on the magnetic-monopole structure of protons. (A15). 475207
- orientation**
Orientation of spiral galaxies in the local supercluster. (A15). 464595
- peripheral collisions**
On peripheral dynamics. (A15). 467954
- photography**
The photography of groups of galaxies. (A15). 478359
- photometry**
Color - absolute magnitude relation for E and S0 galaxies. III. Fully corrected photometry for 405 galaxies: comparison of color distributions for E and S0 field and cluster galaxies. (A15; Virgo, coma, centaurus, and fornax clusters). 475397
Isophotometry of the nuclei of M31 and M51. (A15). 464571
Photometric studies of composite stellar systems. III. UBVR and JHK observations of E and S0 galaxies. (A15). [Data] 464638
The results of observations of double galaxies in the UB_V system. (A15). 478350
Surface photometry and mass distributions in spiral galaxies. (A15).

| | | | | |
|---|--------|--|---|--------|
| | 481247 | | ultraviolet spectra | |
| Surface photometry and interstellar extinction. (A15). | 467769 | | Ultraviolet spectra and color evolution of galaxies at large redshifts. (A15). | 460132 |
| UBV photometry in the dwarf irregular galaxy NGC 6822. (A15). | 475433 | | | |
| UBV photometry of 262 southern galaxies. (A15). | 460145 | | variable stars | |
| physical properties | | | Extratidal variables and the dynamics of the Sculptor dwarf galaxy. (A15). | 475308 |
| Enriched gas in clusters and the dynamics of galaxies and clusters: implications for theories of galaxy formation. (A15). | 467762 | | virial theorem | |
| Observable properties or primeval giant elliptical galaxies of ten million orions at high redshift. (A15). | 467946 | | Velocity dispersion in small systems of galaxies. (A15). | 478272 |
| polarization | | | visible radiation | |
| Study of the NGC2685 peculiar galaxy polarization. (A16). | 464699 | | The distribution of light in galaxies. (A15). | 467814 |
| potential energy | | | A peculiar galaxy system in Hydra. (A15). | 475255 |
| Stabilization of systems of galaxies by subclustering. (A15). | 478308 | | visible spectra | |
| radial velocity | | | Chemical composition of old stellar populations. (A15). | 460057 |
| Radial velocities of some interacting and peculiar galaxies. (A15). | 492857 | | Detection of an optical halo surrounding the spiral galaxy NGC 4565. (A15). | 478260 |
| Velocity dispersion in small systems of galaxies. (A15). | 478272 | | water | |
| Velocity dispersion in the bulge of M 31; dynamical model. (A15). | 467879 | | Detection of strong H ₂ O emission from galaxy NGC4945. (A15). | 462475 |
| radiowave radiation | | | [Data] | |
| Aperture synthesis observations of H I and radio continuum in Arp 205 (NGC 3448 and UGC 6016). (A15). | 471895 | | GALAXY CLUSTERS: | |
| The large scale distribution of radio continuum in E and SO galaxies. (A15). | 467804 | | Compact groups of compact galaxies. 9. (A15). | 475378 |
| Neutral hydrogen in NGC 1023 and IC 239. (A15). | 471754 | | Comprehensive study of 12 very rich clusters of galaxies. II. Dynamics. (A15). | 475248 |
| Radio continuum observations of M31 and M33. (A15). | 467757 | | On the morphology of the compact groups of compact galaxies. (A15). | 467932 |
| Radio properties of the nuclei in elliptical, SO and spiral galaxies. (A15). | 467805 | | Spherical systems of gravitating bodies with an ellipsoidal velocity distribution. (A15). | 467898 |
| Some comments on radio observations of spiral arms. (A15). | 467933 | | binding energy | |
| 21-cm line observations of the group of galaxies NGC 2805, 2814, 2820 and IC 2458. (A15). | 471896 | | Stabilization of systems of galaxies by subclustering. (A15). | 467901 |
| red shift | | | brightness | |
| The field luminosity function and nearby groups of galaxies. (A15). | 478264 | | Brightest members of clusters of galaxies. (A15). | 467819 |
| Mean mass density estimated from the Kirshner, Oemler, Schechter galaxy redshift sample. (A15). | 485920 | | correlation functions | |
| Photon decay in curved space-time. (A15). | 481256 | | Galaxy correlations and cosmology. (A15). | 485870 |
| Redshift data for some southern groups and clusters of galaxies. (A15). | 492888 | | cosmic gases | |
| reviews | | | Dynamical evolution of hot intracluster gas formed by primordial gas and ejected gas from galaxies. (A15). | 464590 |
| Galaxies and their populations: the view on a cloudy day. (A15). | 460083 | | Gas in galaxy clusters. (A15). | 478340 |
| rings | | | Gas replenishment rates in galaxies and the stripping of spirals to make SO's. (A15). | 478249 |
| Annular structures in barred galaxies. (A15). | 489626 | | cosmic radio sources | |
| rotation | | | Hot-spots of radio sources in clusters of galaxies. (A15). | 462473 |
| The kinematics within M31. (A15). | 467921 | | Observations of complex radio sources in Abell clusters at 2.7 GHz. (A15). | 492986 |
| Rotation curves in the outer parts of galaxies from HI observations. (A15). | 467925 | | 4C radio sources in clusters of galaxies. (A15). | 492953 |
| size | | | cosmic x-ray sources | |
| Equidensitometric determination of angular diameters and mean surface magnitudes of compact galaxies. (A15). | 478261 | | The evolution of cluster X-ray sources: subcluster collisions. (A15). | 471818 |
| Galaxies of low surface brightness in clusters and groups. (A15). | 493010 | | Extragalactic X-ray observations. (A15). | 489611 |
| spatial distribution | | | Hydrostatic structure of a hot plasma and x-ray morphology in non-spherical clusters of galaxies. (A15). | 481272 |
| Distribution of galaxies around rich clusters and the clustering of radio sources. (A15; Correlation-function technique). | 460124 | | Predicting the X-ray brightness distributions of cluster sources. (A15). | 492992 |
| The galactic neighbourhood. (A15). | 478346 | | The structure and spectra of the X-ray sources in clusters of galaxies. (A15). | 489454 |
| Hypergalaxies. (A15). | 478237 | | cosmological models | |
| Three dimensional analysis of groups of galaxies. (A15). | 478293 | | The clustering of galaxies and its dependence upon Ω . (A15). | 462436 |
| spectra | | | Computer simulations of galaxy clustering. (A15). | 478197 |
| The radio and optical properties of the BL Lac object PKS 0521-36. (A15). | 492880 | | The Local Supercluster. (A15). | 478356 |
| Spectroscopic survey of southern compact and bright-nucleus galaxies. (A15). | 492889 | | Mathematical approach to the problem of clustering. (A15). | 478218 |
| spectrophotometry | | | Orientation of spiral galaxies as a test of theories of galaxy formation. (A15). | 478266 |
| Spectroscopic survey of some Zwicky compact galaxies. (A15). | 475392 | | *Tidal interactions in the expanding universe: the formation of prolate systems. (A15). | 481246 |
| spherical configuration | | | data | |
| Encounters of spherical galaxies: N-body simulations and comparison with theoretical predictions. (A15). | 478208 | | Compact groups of compact galaxies. 8. (A15). | 467748 |
| spiral configuration | | | dimensions | |
| Annular structures in barred galaxies. (A15). | 489626 | | Sizes of disk systems in the Virgo and Hercules clusters. (A15). | 485921 |
| Detection of an optical halo surrounding the spiral galaxy NGC 4565. (A15). | 478260 | | distance | |
| The dynamics of the spiral structure in galaxies. (A15). | 467791 | | Distances and redshift of the Virgo cluster and Hubble's constant. (A15). | 467905 |
| On the nuclei of the barred galaxies NGC 1365 and NGC 1512. (A15). | 467862 | | electron spectra | |
| Origin of spiral structure of the galaxies. (A15). | 478245 | | Relativistic electrons in the intracluster space of clusters of galaxies: The hard x-ray spectra and heating of the gas. (A15). | 464646 |
| The spiral structure of NGC 157 and NGC 628. (A15). | 467822 | | [Data] | |
| stability | | | emission spectroscopy | |
| Stabilization of systems of galaxies by subclustering. (A15). | 478308 | | A peculiar galaxy system in Hydra. (A15). | 475255 |
| Stabilization of systems of galaxies by subclustering. (A15). | 467901 | | energy sources | |
| star clusters | | | Energy sources for X-ray cluster emission. (A15). | 462463 |
| Open star clusters of M31 and its spiral structure. (A15). | 485880 | | energy spectra | |
| star evolution | | | Detailed examination of the neutral hydrogen distribution in the Leo triplet NGC 3623, 3627, and 3628. (A15). | 489514 |
| The past history of star formation in galaxies. (A15). | 467953 | | faraday effect | |
| star models | | | Intracluster Faraday rotation. I. Observations. (A15). | 485861 |
| The spiral structure of M 31. (A15). | 467745 | | galactic evolution | |
| structural models | | | Color - absolute magnitude relation for E and S0 galaxies. III. Fully corrected photometry for 405 galaxies: comparison of color distributions for E and S0 field and cluster galaxies. (A15; Virgo, coma, centaurus, and fornax clusters). | 475397 |
| On the morphology and dynamics of galaxies. (A15). | 489601 | | Dynamical evolution of galaxies in clusters. (A15). | 460104 |
| symmetry | | | Galaxy correlations and cosmology. (A15). | 485870 |
| Preferred directions in isotropic universe. (A15). | 464609 | | Gas replenishment rates in galaxies and the stripping of spirals to make SO's. (A15). | 478249 |
| three-dimensional calculations | | | The internal structure of protoclusters and the formation of galaxies. (A15). | 478232 |
| Three dimensional analysis of groups of galaxies. (A15). | 478293 | | The Local Supercluster. (A15). | 478356 |
| tides | | | Observational limits on neutral hydrogen in primordial protoclusters. (A15). | 478226 |
| The frequency of ring galaxies and the probability of their formation by collisions. (A15). | 478233 | | On the dynamical evolution of clusters of galaxies. (A15). | 478307 |
| Interacting systems. (A15). | 478351 | | Orientation of spiral galaxies as a test of theories of galaxy | |
| On the tidal origin of M51-type systems. (A15). | 478358 | | | |

- formation. (A15). 478266
- Origin of photogalactic eddies. (A15). 478220
- Primeval clusters of galaxies and the X-ray background. (A15). 478275
- A tour of the Local Supercluster. (A16). 478369
- gravitation**
- Delocalization effect on the relaxation of inhomogeneous gravitational systems. (A15). 483545
- hydrogen**
- Observational limits on neutral hydrogen in primordial protoclusters. (A15). 478226
- H I regions**
- Are there really intergalactic hydrogen clouds in the Sculptor group. (A15). 471834
- Detailed examination of the neutral hydrogen distribution in the Leo triplet NGC 3623, 3627, and 3628. (A15). 489514
- Search for intergalactic neutral hydrogen in three nearby groups of galaxies. (A15). 471858
- infrared radiation**
- Infrared luminosity/H I velocity-width relation and its application to the distance scale. (A15). 489386
- luminosity**
- Infrared luminosity/H I velocity-width relation and its application to the distance scale. (A15). 489386
- Luminosity-temperature relation for cluster x-ray sources. (A15). 489519
- many-body problem**
- N-body simulations of galaxy clustering. I. Initial conditions and galaxy collapse times. (A15). 489387
- N-body simulations of galaxy clustering. II. Groups of galaxies. (A15). 489647
- mathematical models**
- Efficiency of galaxy formation and gravitational clustering. (A15). 489619
- missing mass**
- Dynamical role of light neutral leptons in cosmology. (A15, A21). 464672
- photometry**
- Color-absolute magnitude relation for E and S0 galaxies. III. Fully corrected photometry for 405 galaxies: comparison of color distributions for E and S0 field and cluster galaxies. (A15; Virgo, coma, centaurus, and fornax clusters). 475397
- Photoelectric surface photometry of the Coma cluster. (A15). 478296
- Photometry of the cluster of galaxies A 1146. (A15). 475220
- Properties of the cD galaxies in poor clusters. (A15). [Data] 464656
- Studies of rich clusters of galaxies. (A15). 492867
- planetary nebulae**
- The planetary nebula in the galactic cluster NGC 2818. (A15). 471796
- plasma**
- Particle streaming: Is the Alfvén velocity the ultimate speed limit. (A15). 478263
- radio galaxies**
- Clusters with extended radio emission at high frequencies. (A15). 478362
- Extended radio emission in clusters of galaxies: recent Westerbork observations. (A15). 478355
- H I-deficient spiral galaxies in the Coma cluster and Abell 1367. (A15). 475418
- Radio emission of Abell clusters in the GB and GB2 regions. (A15). 478300
- Radio haloes around galaxies and in clusters. (A15). 478248
- Radio observations of clusters of galaxies: the tail sources. (A15). 478239
- Radio properties of Abell clusters. (A15). 478285
- radio wave radiation**
- Models for x-ray and radio emission from clusters of galaxies. (A15). 485882
- red shift**
- Distances and redshift of the Virgo cluster and Hubble's constant. (A15). 467905
- Observations of the large scale distribution of galaxies. (A15). 478348
- Properties of the cD galaxies in poor clusters. (A15). [Data] 464656
- Redshift data for some southern groups and clusters of galaxies. (A15). 492888
- The structure of the Hercules Supercluster. (A15). 478347
- simulation**
- An analogy between simulated and actual clusters of different kinds. (A15). 478310
- Computer simulations of galaxy clustering. (A15). 478197
- Structures and number-density distributions in clusters of galaxies. (A15). 478203
- spatial distribution**
- Distribution of galaxies around rich clusters and the clustering of radio sources. (A15; Correlation-function technique). 460124
- Large scale clustering in the Universe. (A15). 478316
- Observations of the large scale distribution of galaxies. (A15). 478348
- The physical properties of large scale systems from optical observations. (A15). 478198
- Primordial inhomogeneities in the expanding universe. I. Density and velocity distributions of galaxies in the vicinities of rich clusters. (A15). 489631
- Results on the large scale distribution of extragalactic objects obtained by the method of statistical reduction. (A15). 478330
- The structure of the Hercules Supercluster. (A15). 478347
- Structures and number-density distributions in clusters of galaxies. (A15). 478203
- Superclustering of galaxies. (A15). 478271
- star evolution**
- Star formation in a galactic cluster. (A15). [Data] 471938
- stellar winds**
- Flow patterns of cluster winds and x-ray emissions from clusters of galaxies. (A15). 464591
- visible radiation**
- A peculiar galaxy system in Hydra. (A15). 475255
- x radiation**
- Flow patterns of cluster winds and x-ray emissions from clusters of galaxies. (A15). 464591
- Limits to the value of the Hubble constant deduced from observations of clusters of galaxies. (A15). 475195
- x-ray galaxies**
- Primeval clusters of galaxies and the X-ray background. (A15). 478275
- X-ray observations of clusters of galaxies. (A15). 478224
- x-ray spectra**
- Cluster iron lines and the X-ray spectrum of SC 0627 - 544. (A15). [Data] 462418
- Diffuse X-ray emission from Abell clusters 401 and 399 - A gravitationally bound system. (A15). 464676
- Discovery of 1.1 keV iron line emission in the spectrum of the M87/Virgo cluster X-ray source. (A15). [Data] 464607
- Models for x-ray and radio emission from clusters of galaxies. (A15). 485882
- OSO 8 x-ray spectra of clusters of galaxies. II. Discussion. (A15). [Data] 464664
- Relativistic electrons in the intracluster space of clusters of galaxies: The hard x-ray spectra and heating of the gas. (A15). [Data] 464646
- The structure and spectra of the X-ray sources in clusters of galaxies. (A15). 489454
- GALAXY NUCLEI:**
- (Central part of galaxies.)
- formaldehyde**
- Observations of the 5-GHz H₂O absorption in directions towards the Galactic Centre region. (A15). 493007
- infrared radiation**
- Infrared emission of the galactic center and extragalactic sources. (A15). 460116
- infrared spectra**
- Extinction in infrared-emitting galactic nuclei. (A15). 489557
- magnetic fields**
- A magnetized accretion disk model of quasars and active galactic nuclei. (A15). 481311
- maps**
- An x-ray map of the galactic centre. (A15). 467916
- mass**
- The mass of the halo population. (A15). 467967
- silicates**
- Extinction in infrared-emitting galactic nuclei. (A15). 489557
- size**
- On determination of size of the "point" radio source at the galactic centre. (A15). 485916
- spectra**
- Spectroscopic survey of southern compact and bright-nucleus galaxies. (A15). 492889
- star accretion**
- A magnetized accretion disk model of quasars and active galactic nuclei. (A15). 481311
- star models**
- A model for galactic centres. (A15). 489548
- x radiation**
- A search for X-ray pulsations from the Galactic Centre. (A15). [Data] 471790
- X-rays from active galactic nuclei: Inverse compton reflection. (A15). 485901
- GALENA:**
- shielding materials**
- Radiation-absorbing material. (C54, E16, E22). 476733
- GALLBLADDER:**
- See BILIARY TRACT
- GALLIUM:**
- absorption spectroscopy**
- Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- critical field**
- Anisotropy of the stress dependence of critical parameters in uniaxial superconductors. (A17, B22). 475488
- energy gap**
- Evaluation of the validity of superconducting evidence for anisotropy and multiple energy gaps. (A17, B22). 475461
- Nearly free electron model of the BCS gap equation: energy gap anisotropy in gallium. (A17, B22). 475464
- energy levels**
- Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- Ordering of the excited-state atomic energy levels and fine-structure inversion in atomic and ionic spectra. (A10). 463874
- fine structure**
- Ordering of the excited-state atomic energy levels and fine-structure inversion in atomic and ionic spectra. (A10). 463874
- oscillator strengths**
- Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- photoconductivity**
- Ge : Ga photoconductors in low infrared backgrounds. (B24). [Data] 465706

- transition temperature**
Anisotropy of the stress dependence of critical parameters in uniaxial superconductors. (A17, B22). 475488
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
- GALLIUM ALLOYS:**
- critical current**
Critical data of type II superconductors under hydrostatic pressure. (B22, B23, A17). 479446
- critical field**
Critical data of type II superconductors under hydrostatic pressure. (B22, B23, A17). 479446
- Superconducting properties of AuGa and AuGa₂ compounds. (B22, A17). 472642
- crystal structure**
Crystal structure of R₁₀Ga₃Co(R=Y, La. (B12). 493604
- energy-level density**
⁵¹V nuclear spin-lattice relaxation in V_{sub}(0.75-x)Ga_{sub}(0.25+x). (B25, A13). [Data] 481885
- fabrication**
Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846
- intermetallic compounds**
On ultimate densities of the critical current in Nb₃Sn V₃Ga macroscopic layers. (B22). 479417
- magnetic properties**
Effect of wall pinning on bubble motion. (B22). [Data] 465625
- mechanical properties**
Structure and properties of transition metal-metalloid glasses based on refractory metals. (B23, B24, B22). 472698
- phase diagrams**
Alloys of the V-Co-Ga and V-Ni-Ga systems. (B22). 469238
Europium-gallium phase diagram. (B22). 469342
The Nb-Ga-Y system. (B22). 486924
Phase equilibria of the Se-Ti-Ga and Se-Cr-Ga systems at 800 deg C. (B22). 469170
The ytterbium-gallium system. (B22). 472664
- phase studies**
Phase diagrams of rare earth metals with gallium. (B22). 484278
- superconductivity**
Effects of stoichiometry and neutron irradiation in superconducting A-15 compounds. (A17, B22, B25). 478387
Superconducting properties of in situ formed Cu-V₃Ga composites. (B22, A17). 486867
Textures in diffusion-processed superconducting Nb₃Sn and V₃Ga layers. (B22, A17). 486931
- transition temperature**
Superconducting properties of AuGa and AuGa₂ compounds. (B22, A17). 472642
Superconducting properties of A15 compounds derived from band-structure results. (B22, A17). [Data] 465607
Superconductivity of ternary alloys with A15-structure in as sputtered conditions. (B22). 479428
- tunnel effect**
Proximity electron tunneling study of V and V₃Ga. (A13, B22). 489083
- GALLIUM ARSENIDES:**
- aluminium**
The interaction of silver and aluminium on gallium arsenide (001) surfaces: a study by MBE and associated techniques. (A13). 467436
- amorphous state**
Raman study on crystal-lattice randomization of semiconductor compounds A(III)B(V) at ion implantation. (A13). [Data] 464221
- carrier mobility**
Optical properties of semiconductors due to a carrier distribution in non-equilibrium. (A13). 471570
- cathodoluminescence**
Luminescence studies of the 1.36-eV band and the edge emission in melt-grown GaAs : Cu. (B24). 487001
- chemical radiation effects**
Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- crystal defects**
A review of deep-level defects in III-V semiconductors. (B25). 494149
- Study on radiation defect in electron-irradiated GaAs by the positron annihilation technique. (A13). 492711
- crystal growth**
Epitaxial growth from the liquid phase of GaAs. (A13). 471434
- crystal structure**
Studies in the electronic structure of matter. (A12, A13, B24). [Data] 474627
- electrical properties**
Transmission electron microscopy and electrical properties measurements of laser doped silicon and GaAs. (B21, B22). 472618
- electronic structure**
A cluster model for covalent solids. (A13). 471455
- emission**
Theory of the reduction of long delay spontaneous emission GaAs junction lasers. (A14). 471702
- epitaxy**
Electric properties in epitaxial shells of pure GaAs. (A13). 471522
Photoluminescence in epitaxial shells of GaAs. (A13). 471435
- ion channeling**
X-ray and Rutherford backscattering yields from channeled helium ions in GaAs. (A13). [Data] 471531
- ion implantation**
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
Combination light scattering study of GaAssub(1-x)Psub(x) Gasub(1-x) Alsub(x)As solid solutions synthesized by ion implantation. (A13). 467447
Deep levels in Be-implanted GaAs. (A13). 492714
Ion implantation induced defects and epitaxial regrowth by thermal and laser annealing. (B25, A13). 494122
Laser annealing of capped and uncapped GaAs. (B25). 490730
Measurement of the distribution of luminescence centres in implanted A(III)B(V) semiconductors by photoluminescence. (A13). [Data] 464210
Moessbauer spectroscopy of ion-implanted ¹¹⁹Snsub(m) in GaAs. (A13). 492635
Pulse annealing of ion-implanted GaAs. (A13). 492691
- luminescence**
Luminescence from exciton polaritons in weakly excited GaAs based on exciton-electron collisions. (A12). 488750
- nuclear magnetic resonance**
Quadrupole interactions in A³B³ semiconductor compounds. (A13). 474688
- physical radiation effects**
Dependence of energy spectrum of levels induced by electron irradiation into GaAssub(1-x)Psub(x) and Alsub(x)Gasub(1-x)As composition. (A13). 474817
Effect of electron irradiation on GaAr-emitting diode parameters. (A13). 488947
Electron traps in irradiated GaAs: comparison with native defects. (B25). 494159
Ion implantation induced defects and epitaxial regrowth by thermal and laser annealing. (B25, A13). 494122
Radiation defects in GaP and solid solution of GaAssub(1-x)Psub(x). (B25). 494101
Two types of defect clusters in GaAs. (B25). 494144
Type conversion in electron-irradiated GaAs. (B25). 479538
- point defects**
Electronic stimulation of defect processes in semiconductors. (B25). 494134
- polycrystals**
Epitaxial growth from the liquid phase of GaAs. (A13). 471434
- radiolysis**
Mechanism of optically induced degradation in InP/Insub 1-xGa/sub x/As/sub y/P/sub 1-y/ heterostructures. (B25). 479547
- semiconductor lasers**
Calculation of the index of refraction for the active region of a GaAs laser. (A14). 471596
Theory of the reduction of long delay spontaneous emission GaAs junction lasers. (A14). 471702
- semiconductor materials**
Optical properties of semiconductors due to a carrier distribution in non-equilibrium. (A13). 471570
- silver**
The interaction of silver and aluminium on gallium arsenide (001) surfaces: a study by MBE and associated techniques. (A13). 467436
- spatial distribution**
Chemically induced charge redistribution at Al-GaAs interfaces. (B22). 465578
- stopping power**
On the extension of possibilities of the method for determining stopping powers from backscattering spectra in the case of multicharged ions. (A32; nitrogen ions). 464942
- surface properties**
Surface structure of GaAssub(1-x)Sbsub(x) grown by molecular beam epitaxy. (A13). 462215
- thermometers**
Gallium arsenide p-type low temperature thermometers. (E42). 492205
- traps**
Electron traps in irradiated GaAs: comparison with native defects. (B25). 494159
- GALLIUM BROMIDES:**
- chemical reactions**
Investigation into gallium (3) bromide interaction with cadmium and zinc bromides. (B12). 476029
- GALLIUM COMPLEXES:**
- chemical preparation**
Investigation of formation reactions and synthesis of gallium molybdotungstic heteropoly complexes. (B12). 493731
- crystal structure**
On structure of oxocomplexes of rare earths, gallium and indium. (B12). 465343
- GALLIUM COMPOUNDS:**
See also GALLIUM ARSENIDES; GALLIUM BROMIDES; GALLIUM NITRIDES; GALLIUM PHOSPHIDES; GALLIUM SELENIDES; GALLIUM SULFIDES; GALLIUM TELLURIDES
- electronic structure**
Self-consistent augmented-plane-wave electronic-structure calculations for the A15 compounds V₃X and Nb₃X, X = Al, Ga, Si, Ge, and Sn. (B22, A17). 469209
- impurities**
Radiation chemical transformations of ions of impurity metals in cesium halide monocrystals. (B14). 479206
- intermetallic compounds**
Crystal structure, magnetic and magneto-elastic properties of the UGa₂ compound. (B22). 493913
- phase diagrams**
Investigation of phase equilibria in systems from niobates of cesium gallium, lithium and gallium. (B12). 479041

- radiolysis**
Pulse radiolysis of Ga(3) aqueous solutions. (B14). 479291
Pulse radiolysis of Ga(3) aqueous solutions. (B14). 468976
- superconductivity**
Self-consistent augmented-plane-wave electronic-structure calculations for the A15 compounds V_3X and Nb_3X , $X = Al, Ga, Si, Ge$, and Sn . (B22, A17). 469209
- GALLIUM ISOTOPES:**
See also GALLIUM 62; GALLIUM 66; GALLIUM 67; GALLIUM 68; GALLIUM 71; GALLIUM 72; GALLIUM 73
- scintiscanning**
Abnormal gallium scan patterns of the salivary gland in pulmonary sarcoidosis. (C62). 461415
- uptake**
Abnormal gallium scan patterns of the salivary gland in pulmonary sarcoidosis. (C62). 461415
- GALLIUM NITRIDES:**
- ion channeling**
Channeling studies of epitaxially grown gallium nitride crystals. (A13). 477908
Ion blocking and channeling studies of heteroepitaxial GaN layers. (A13). 464147
- proton channeling**
Ion blocking and channeling studies of heteroepitaxial GaN layers. (A13). 464147
- GALLIUM PHOSPHIDES:**
- amorphous state**
Raman study on crystal-lattice randomization of semiconductor compounds A(III)B(V) at ion implantation. (A13). [Data] 464221
- chemical state**
On the quantitative characterization of chemical disorder of Insub(1-x)Gasub(x)P from wavelength-modulated no-phonon absorption. (A13). 462243
- crystal defects**
A review of deep-level defects in III-V semiconductors. (B25). 494149
- crystal structure**
Studies in the electronic structure of matter. (A12, A13, B24). [Data] 474627
- electron spin resonance**
EPR of an antisite-impurity defect in electron-irradiated GaP. (B25). 494133
- luminescence**
Radiation effects and the control of optoelectronic properties in II-VI compound semiconductors. (B25). 494110
- magnetic susceptibility**
Magnetic susceptibility of crystals of gallium phosphide alloyed by rare earths. (B12; Rare earths: Gd, Tb, Er, Tb, Yb). 476021
- physical radiation effects**
Dependence of energy spectrum of levels induced by electron irradiation into GaAssub(1-x)Psub(x) and Alsub(x)Gasub(1-x)As on composition. (A13). 474817
Electrical profiles of magnesium-ion-implanted GaP. (B25). [Data] 465732
EPR of an antisite-impurity defect in electron-irradiated GaP. (B25). 494133
Radiation defects in GaP and solid solution of GaAssub(1-x)Psub(x). (B25). 494101
Electronic stimulation of defect processes in semiconductors. (B25). 494134
- GALLIUM SELENIDES:**
- band theory**
Valent band structure in $CdGa_2Se_4$. (A13). 492648
- energy levels**
Synchrotron radiation photoemission studies of core level excitation effects. (B22, B24). [Data] 479467
- phase diagrams**
Projection of liquidus of the Ga, As long Se, Te. (B12). 493693
Structure of the phase equilibrium diagram of the Cd-Ga-Se system. (B12). 468885
- GALLIUM SULFIDES:**
- crystal structure**
Data on crystal structure of thallium-gallium disulfide. (A13). 474703
- GALLIUM TELLURIDES:**
- absorption spectra**
Effect of exciton polaritons of absorption edge of GaTe. (A13). 492656
Effect of exciton polaritons on the absorption edge of GaTe. (A13). 492655
Electroabsorption in GaTe. (B22). 462873
- chemical reactions**
Physicochemical study into interaction of tellurides of indium and gallium with their halogenides. (B12). 468711
Study of chemical interaction in the $ReTe_2$ - Ga_2Te_3 system. (B12). 493644
- electric conductivity**
Resistivity anisotropy in the layer plane of GaTe. (B12). 475957
- excitons**
Effect of exciton polaritons of absorption edge of GaTe. (A13). 492656
Effect of exciton polaritons on the absorption edge of GaTe. (A13). 492655
- holes**
Electrical properties of $CuGaTe_2$ epitaxial layers. (B12). [Data] 481683
- phase diagrams**
 $GaTe_2$ - Bi_2Te_3 system. (B12). 465400
Projection of liquidus of the Ga, As long Se, Te. (B12). 493693
- photoluminescence**
The nature of energy bands of Asup(III)Bsup(VI) layered crystals near the absorption edge. (A12). [Data] 485404
- GALLIUM 62:**
- beta-plus decay**
Superaligned Fermi decay of ^{62}Ga . (A34). 478721
- half-life**
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- mass**
New isotopes of interest to explosive nucleosynthesis. (A34; J, π , preliminary results). 481542
- nuclear properties**
Nuclear data sheets for A=62. (A34). [Data] 465145
- GALLIUM 66:**
- beta decay**
On the deformation parameter of ^{66}Ga . (A34). 490265
- deformed nuclei**
On the deformation parameter of ^{66}Ga . (A34). 490265
- gamma decay**
Research with the 4 MV accelerator. (A34). 483818
- GALLIUM 67:**
- abscesses**
Studies of gallium accumulation in inflammatory lesions. Pt. 4. (C21). 494328
- binding energy**
Kinetics of binding of carrier-free ^{67}Ga to human transferrin. (C21, C62, B13). 469764
- biological localization**
Augmented skeletal accumulation of Ga-67: a variant in children. (C62, C61). 470170
- blood-plasma clearance**
Desferoxamine mesylate (desferal): a contrast-enhancing agent for gallium-67 imaging. (C62, C21). 491330
- cat scanning**
Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
- chemical preparation**
Preparation of ^{67}Ga -citrat. (B13). 486694
- distribution**
Comparative biokinetics of radiogallium and radioindium in mice. (C21, C62). [Data] 473100
Source of fecal gallium—clinical implications: concise communication. (C21, C62; Gallium-67 kinetics in rats). 469798
- granulomas**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- half-life**
Decay data of ^{67}Ga and ^{201}Tl . (A34). [Data] 490143
- high spin states**
High spin states in ^{67}Ga . (A34). 468585
- intestinal absorption**
Source of fecal gallium—clinical implications: concise communication. (C21, C62; Gallium-67 kinetics in rats). 469798
- isotope production**
Contribution to the production of Gallium 67 by means of the cyclotron of the University of Liege. (D13). 463486
Production of ^{67}Ga , ^{68}Ga by bombardment of natural zinc target with alpha and 3He particles. (B13). 476144
- mediastinum**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- photon emission**
Decay data of ^{67}Ga and ^{201}Tl . (A34). [Data] 490143
- radioisotope scanning**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- radionuclide kinetics**
Organ distribution and kinetics of ^{67}Ga citrate in rats with experimental tumours. (C62). 463460
- radiopharmaceuticals**
 ^{67}Ga -citrate uptake by the parotid glands in sarcoidosis. (C62, C21; Effectiveness for differential diagnosis). 494569
Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
- retention**
 ^{67}Ga scanning in the evaluation of esophageal carcinoma. (C62, C31). 491336
Demonstration of lactoferrin in tumor tissue from two patients with positive gallium scans. (C62, C21). 487696
Histopathological discrimination of ^{67}Ga deposition in experimental tumors. (C62). 473468
Kinetics of binding of carrier-free ^{67}Ga to human transferrin. (C21, C62, B13). 469764
- salivary glands**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- scintiscanning**
 ^{67}Ga scanning in the evaluation of esophageal carcinoma. (C62, C31). 491336
 ^{67}Ga -citrate uptake by the parotid glands in sarcoidosis. (C62, C21; Effectiveness for differential diagnosis). 494569
Clinical/usefulness of gallium-67 lung scan in diffuse interstitial lung diseases of various etiology. (C62). 473451
Comparison of computer tomography and other imaging modalities in the evaluation of musculoskeletal tumors. (C62, C61, C60; ^{67}Ga -citrate and /sup 99m/Tc-pyrophosphate). 487711
Computed tomography and ^{67}Ga citrate radionuclide imaging for evaluating suspected abdominal abscess. (C62, C61). 473456
Computerized double-tracer subtraction scanning with Gallium-67

- citrate in inflammatory diseases. (C62). 470086
- Contribution of multi-isotopic explorations in the diagnosis of tumours and cerebral softening. (C62). 487717
- Demonstration of lactoferrin in tumor tissue from two patients with positive gallium scans. (C62, C21). 487696
- Desferoxamine mesylate (desferal): a contrast-enhancing agent for gallium-67 imaging. (C62, C21). 491330
- Diagnosis of head and neck malignant tumors by scintigram using ^{67}Ga -citrate. (C62). 476812
- Gallium scan in sternal osteomyelitis. (C62). 487742
- Gallium 67 lung scanning. Method, practical procedures, clinical applications. (C62). 482366
- Positive scintiscanning of head and neck tumors. (C62). 470151
- Preoperative diagnosis of splenic abscess by ultrasonography and radionuclide scanning. (C62; ^{67}Ga -citrate; /sup 99m/Tc-sulfur colloid). 491308
- Splenic abscess: comparison of four imaging methods. (C62, C61; Scintiscanning; CAT Scanning; arteriography; ultrasonography). 473432
- Unusual scintigraphic appearances of a mobile accessory lobe of the liver. (C62; ^{67}Ga ; /sup 99m/Tc-sulfur colloid; /sup 99m/Tc-dihydrothioic acid). 470075
- tumor cells**
- Histopathological discrimination of ^{67}Ga deposition in experimental tumors. (C62). 473468
- GALLIUM 68:**
- distribution**
- Comparative biokinetics of radiogallium and radioindium in mice. (C21, C62). [Data] 473100
- isotope production**
- Production of ^{67}Ga , ^{68}Ga by bombardment of natural zinc target with alpha and ^3He particles. (B13). 476144
- positron sources**
- Precision measurement of annihilation point spread distributions for medically important positron emitters. (C63, D14). 491364
- radiochemistry**
- Gallium-68 labelling of albumin and albumin microspheres. (B13, C62). 486731
- radiopharmaceuticals**
- A comparison of positron-emitting blood pool imaging agents. (C62). 484737
- scintiscanning**
- A comparison of positron-emitting blood pool imaging agents. (C62). 484737
- GALLIUM 69 TARGET:**
- triton reactions**
- ^{71}Ga and ^{73}Ga levels as observed in the (t,p) reaction. (A34). 478780
- ^{71}Ga and ^{73}Ga levels as observed in the (t,p) reaction. (A34). 481608
- GALLIUM 71:**
- energy levels**
- ^{71}Ga and ^{73}Ga levels as observed in the (t,p) reaction. (A34). 478780
- GALLIUM 71 TARGET:**
- triton reactions**
- ^{71}Ga and ^{73}Ga levels as observed in the (t,p) reaction. (A34). 478780
- ^{71}Ga and ^{73}Ga levels as observed in the (t,p) reaction. (A34). 481608
- GALLIUM 72:**
- angular correlation**
- Beta-gamma angular correlation studies on ^{72}Ga , ^{149}Pm and ^{115}Cd isotopes. (A34). 468560
- gamma cascades**
- Beta-gamma angular correlation studies on ^{72}Ga , ^{149}Pm and ^{115}Cd isotopes. (A34). 468560
- self-diffusion**
- Self-diffusion of ^{60}Co and ^{72}Ga in the ordered electronic compound CoGa . (B12). [Data] 481656
- GALLIUM 73:**
- energy levels**
- ^{71}Ga and ^{73}Ga levels as observed in the (t,p) reaction. (A34). 478780
- GALLOTANNIC ACID:**
- See **TANNIC ACID**
- GALVANIC CORROSION:**
- See **ELECTROCHEMICAL CORROSION**
- GAMETES:**
- See also **POLLEN**; **SPERMATOZOA**
- GAMETOGENESIS:**
- See also **OOGENESIS**; **SPERMATOGENESIS**
- GAMMA ASTRONOMY:**
- (For photon energies above 100 kev.)
- What cooks with gamma rays. (A15; Recent advances in gamma astronomy). 478255
- GAMMA CAMERAS:**
- See also **POSITRON CAMERAS**
- Energy independent uniformity improvement for gamma camera systems. (E41; Patent). 480777
- Process and device for determining the spatial distribution of a radioactive substance. (E41). 485068
- amplifiers**
- Gamma camera systems. (E41, C62). 485090
- collimators**
- Collimator. (E41). 470810
- Gamma camera. (E41; Patent). 461862
- Gamma camera. (E41; Patent). 461861
- Multi-view collimator for scintillation cameras. (E41). 495103
- Multiple collimator. (E41, C62). 474036
- Nuclear medical diagnosis apparatus for determination of the distribution pattern of a radioactive radiator. (E41, C62). 482840
- A study of the point spread function in scintillation camera collimators based on Fourier analysis. (C62). 473463
- comparative evaluations**
- The mobile gamma camera. (E41). 488259
- Performance comparison of five large-field gamma cameras. (C61). 473376
- computers**
- The dynamic picture technique: uplift for the gamma camera. (C62). 480267
- control systems**
- Electronic device for scintillation camera physiological driving. (C45, E41). 463346
- corrections**
- Quantitative studies with the gamma-camera: correction for spatial and energy distortion. (E41). 463742
- data acquisition systems**
- Device for multiplexing scintillation probe pulses into gamma-camera scintigrams. (E41). 477380
- dead time**
- Anger camera dead time and its computer correction in dynamic radionuclide studies. (E41). 463745
- diagnosis**
- Spark gamma camera for radioisotope investigations. (C62). 482351
- diagnostic techniques**
- Nuclear medicine computer plays important role. (C45). 494370
- display devices**
- A device for scintillation cameras. (E41). 463726
- gas scintillation detectors**
- Solid-gas Xe gamma radiation detector. (E41). 463737
- germanium diodes**
- Theoretical efficiencies and spectral calculations for the picture-detector element in a germanium γ -ray camera. (E41, B22). 461859
- hgi2 semiconductor detectors**
- Device for detecting the radiation of a radioactive tracer, incorporated in the human body, by means of a detector and an evaluating circuit containing a digital memory. (E41, C61). 477385
- high-purity ge detectors**
- Gamma camera system. (E41, C61). 470921
- image processing**
- Computer-assisted liver-mass estimation from gamma-camera images. (C62; /sup 99m/Tc-sulfur colloid imaging). 473423
- Human visual modeling and image deconvolution by linear filtering. (C31). 469831
- The mathematical treatments of the static scintigraphic images. (C31). 469832
- Techniques to reduce spurious ringings in the restoration of scintigraphic images. (C31). 469822
- images**
- Studies on parameters influencing quantitative scintillation camera measurements of in vivo radionuclide distributions. (C62, E41). 491355
- memory devices**
- Scintillation camera for high activity sources. (E41). 480746
- nai detectors**
- Scintillator for a gamma ray camera. (E41; Patent). 482864
- nuclear medicine**
- The scintillation gamma-camera type MB 9100. (E41). 482841
- pattern recognition**
- Image reconstruction in gamma-rays by means of the gamma camera with a multi-pin-hole collimator. (E41). 495127
- performance**
- Two-detector, 512-element high purity germanium camera prototype. (E41, C62). 466800
- performance testing**
- Effect of photon energy on tests of field uniformity in scintillation cameras: concise communication. (E41, C62). 463725
- A new phantom for the assessment of nuclear medicine imaging equipment. (C55, E41). [Data] 476750
- radioisotope scanning**
- On the performance of scanners Pt. I. (E41, C62). [Data] 495119
- scintillation counting**
- Scintillation camera. (E41). 470915
- sensitivity**
- Resolution, sensitivity, and contrast in gamma-camera design: a critical review. (C62, E41). 487748
- spatial resolution**
- Computerized rotating laminar radionuclide camera. (C62, E41). 473459
- Resolution, sensitivity, and contrast in gamma-camera design: a critical review. (C62, E41). 487748
- specifications**
- Array gamma counter. (E41; Patent). 488268
- Computerized rotating laminar radionuclide camera. (C62, E41). 473459
- Improving the spatial resolution of the multiple multiwire proportional chamber gamma camera. (E41, C62). [Data] 474033
- Two-detector, 512-element high purity germanium camera prototype. (E41, C62). 466800
- GAMMA CASCADES:**
- angular correlation**
- Angular correlations for γ - γ cascades in ^{147}Pm . (A34). [Data] 481597
- energy**
- Observations on energy measurement of an electromagnetic cascade in photo emulsion chambers. Part I. (A15). 471870
- Observations on energy measurement of an electromagnetic cascade in lead photo emulsion. Part II. (A15). 471778
- GAMMA DECAY:**
- See also **INTERNAL CONVERSION**; **K CONVERSION**; **L CONVERSION**
- calibration standards**
- Precise γ -ray energies from the radioactive decay of ^{170}Tm and ^{169}Yb . (A34, D15). 475823

- Radiative decays of vector mesons in a chiral SU(4)xSU(4) breaking scheme. (A21). [Data] 478443
- su-3 groups**
- $\pi\gamma$ decays of rho, ω and phi in a nonet symmetry scheme. (A21). 462536
- su-4 groups**
- Radiative decays of vector mesons in a chiral SU(4)xSU(4) breaking scheme. (A21). [Data] 478443
- t invariance**
- On the apparent T-invariance breaking in gamma processes. (A33). 493255
- GAMMA DETECTION:**
- AlSb as a high-energy photon detector. (E41, B22). 461867
- Effect of temperature during UV and gamma irradiations of TL phosphor CaSO₄:Dy. (E41). 470926
- annihilation**
- Instrumentation for study on the positron annihilation. (E41). 495056
- cdte semiconductor detectors**
- Semiconductor detectors, recent progress. (E41). 474123
- coincidence methods**
- A thin $4\pi\beta$ -counter operating by negative high voltage for the $4\pi\beta$ - γ coincidence measurement. (E41). 477373
- compton diode detectors**
- Directional detector of gamma rays. (E41; Patent). 488231
- directional radiation detector**
- Directional detector of gamma rays. (E41; Patent). 488231
- errors**
- Interesting form of high-energy gamma-ray: detector interaction and its effect on spectral peak centroid determination. (E41). 470977
- exploration**
- Quantitative gamma scintillometry and spectrometry in uranium exploration. (B31). [Data] 469480
- flux density**
- Self-powered radiation detector. (E41). 495090
- gas scintillation detectors**
- Solid-gas Xe gamma radiation detector. (E41). 463737
- ge semiconductor detectors**
- Detector applications. (E41, E43). 470932
- hgi2 semiconductor detectors**
- A mercuric iodide medical probe. (E41). 485078
- Semiconductor detectors, recent progress. (E41). 474123
- microchannel electron multipliers**
- A low-energy gamma-ray imaging detector. (E41, A15). 480792
- multiwire proportional chamber**
- Elimination of image blurring due to double scatter events in γ imaging MWPC detectors. (E41; DOE). 466814
- naI detectors**
- Design and performance of a modularized NaI(Tl) detector (the crystal ball prototype). (E41; DOE). 482820
- proportional counters**
- Ionising radiation detector and fabrication process. (E41). 482821
- semiconductor detectors**
- Detector applications. (E41, E43). 470932
- A new solid detector of ionizing radiation. (E41). 470943
- Semiconductor detector fabrication techniques. (E41). 470965
- shock absorbers**
- Shock-resistant gamma-ray detector tube. (E41). 495139
- si semiconductor detectors**
- A semiconductor detector of ionizing radiation. (E41). 463735
- solid scintillation detectors**
- Gamma radiation scintillation detector with high impact strength. (E41). 470927
- Method and device for the calibration of a gamma counter. (E41). 461844
- A versatile counter for large-volume samples. (E41). [Data] 474103
- telemetry**
- Improved process and devices in the radiation detection. (E42). 482872
- GAMMA DIFFRACTOMETERS:**
- A γ -ray diffractometer for systematic measurements of absolute structure factors. (E41, A13). 470951
- GAMMA DOSIMETRY:**
- Practical methods for processing level radiation dosimetry. (E41). 477360
- buildup**
- Polynomial form of gamma-ray buildup factor functions. (D15, A32). [Data] 491410
- calibration**
- A novel gamma irradiation facility. (D14). 470240
- computer calculations**
- Development of a mid-head radiation dose response function. (D15, C15, E14; Phantom determinations of neutron and γ absorbed doses in mid-brain for military applications). [Data] 470256
- depth dose distributions**
- Central-axis 60Co ionization measurements in graphite as a function of phantom diameter, depth, and field size. (D15). 487794
- Comparative study of dosimetric aspects of 4-MeV linear accelerator. (D15, A32). 461464
- Empirical equation for tissue-maximum ratios/scatter-maximum ratios for indirectly ionizing radiotherapy beams. (D15). 470255
- dose rates**
- Activation of concretes for fusion applications. (D15, A14, A31). 461462
- Gamma-ray dose rate conversion and buildup factors. (A32, D15; 1 to 10 MeV). 460273
- ionization chambers**
- Examination of the factors A/sub c/ and A/sub eq/ for cylindrical ion chambers used in cobalt-60 beams. (D15, E41). 491407
- lyoluminescence**
- Possible application of lyoluminescence in integral dosimetry. (E41). 485050
- personnel dosimetry**
- Personnel dosimetry methods used by the national personnel dosimetry service in Czechoslovakia. (C55). 482280
- radiation accidents**
- Nuclear accident dosimetry: calculations and comparison with experimental data. (C52). 473260
- radiation dose distributions**
- Radiation quality and absorbed dose at different positions in the primary beam and around the shielding of a neutron generator. (C11, C55). [Data] 463066
- radiation dose units**
- Dosimetry. (C55). 482275
- response functions**
- Development of a mid-head tissue dose response function. (D15). 461466
- spatial dose distributions**
- Absorbed dose comparison: positron emitters ¹¹C, ¹³N, and ¹⁵O versus gamma-ray emitters. (D15). 487795
- thermoluminescent dosimeters**
- Relative efficiency of the radiothermoluminescence induced by ²³⁸Pu alpha-particles in LiF:Mg, Al₂O₃ and CaSO₄:Dy. (E41). 492170
- tissue-equivalent detectors**
- Gamma measurements with a non-hydrogenous Rossi counter in a mixed field. (C11, C55). [Data] 465871
- GAMMA FUEL SCANNING:**
- Device and method for determining the power distribution in a nuclear reactor fuel assembly. (E24). 473821
- burnup**
- Gamma scanning in in-service inspection of nuclear fuel burnup. (E17). 487944
- Non-destructive determination of burnup by gamma-scanning: an assessment of cesium-134/cesium-137 activity ratio as a fission monitor in CANDU fuels. (B11). 490278
- spent fuel elements**
- Gamma ray measurement of spent HIFAR fuel elements for safeguards verification. (F41, E36). 477532
- Gamma ray measurement of spent HIFAR fuel elements for safeguards verification. (F41, E36). 477533
- spent fuels**
- Non-destructive quantitative analysis of spent fuels by gamma spectrometry. (E17). [Data] 473752
- trace amounts**
- Optimal absorption thickness for gamma-scanning activation analysis. (B11, E41). [Data] 462670
- GAMMA HEATING:**
- See RADIATION HEATING
- GAMMA LOGGING:**
- (Logging the natural gamma activity of a well.)
- boreholes**
- Borehole logging techniques. (B31). [Data] 469486
- corrections**
- Spectral gamma-ray logging II: borehole correction factors. (D22). 487807
- data**
- NDA technology for uranium resource evaluation. Progress report, January 1 - June 30, 1978. (E52). 471073
- data processing**
- Spectral gamma-ray logging III: formation and thin bed effects. (D22). 487808
- Use of digital computers for correction of gamma method and neutron-gamma method indications. (B31). 487101
- radioactivity**
- Borehole logging techniques. (B31). [Data] 469486
- response functions**
- Spectral gamma-ray logging III: formation and thin bed effects. (D22). 487808
- semiconductor detectors**
- Cryostat for borehole sonde employing semiconductor detector. (E41). 482866
- solid scintillation detectors**
- Gamma radiation scintillation detector with high impact strength. (E41). 470927
- GAMMA RADIATION:**
- See also DELAYED GAMMA RADIATION; PROMPT GAMMA RADIATION
- absorption**
- Radiation transport in earth for neutron and gamma ray point sources above an air-ground interface. (A32, A31, E14). 472126
- Study of attenuation factor of gamma radiation in concrete shielding. (A32). 472120
- aerial monitoring**
- Airborne radiometric surveys, equipment and practical considerations. (B31). [Data] 469478
- aerial prospecting**
- Airborne radiometric surveys, equipment and practical considerations. (B31). [Data] 469478
- albedo**
- Concrete albedo for low-energy gamma radiation. (A32). [Data] 486179
- Removal of negative albedo terms in gamma-ray albedo data. (A32). 460274
- angular correlation**
- Positronium formation in ultrafine particles of 3d-transition metals. (A13). 471573
- annihilation**
- Numerical calculations of annihilation radiation from point isotropic photon sources. (A32). 493134

- attenuation**
Attenuation in Lipowitz's metal of x rays produced at 2, 4, 10, and 18 MV and gamma rays from cobalt-60. (A32). 478588
- bacteria**
Comparative bacteriological investigations of sewage sludge after treatment with gamma-irradiation. (C12). 490943
- biological radiation effects**
Stereotactic gamma irradiation of basilar artery in cat. (C14). 461051
- bragg gray chambers**
Ionization chamber of the response independent of gamma radiation energy. (E41). 485112
- buildup**
Calculation of build-up factors for deep gamma penetration. (D15). 466460
Gamma-ray dose rate conversion and buildup factors. (A32, D15; 1 to 10 MeV). [Data] 460273
Techebycheff-fitted berger coefficients for Eisenhower-Simmons gamma-ray buildup factors in ordinary concrete. (A32, E22). 460263
- calibration standards**
The Pelindaba facility for calibrating radiometric field instruments. (B31). [Data] 476413
Precise γ -ray energies for calibration of Ge semiconductor spectrometers to 3.5 MeV. (E41). 470879
- calorimetry**
Calorific energy deposited by gamma radiations in a test reactor. Calorimetric measurements and calculations. (E36). [Data] 492029
- cellulose**
Radiation-induced degradation and subsequent hydrolysis of waste cellulose materials. (C11, B14). [Data] 463044
- chemical radiation effects**
Electron spin resonance studies of γ -irradiated simple formates. (B14). 462792
Liberation of I_2 and aquoluminescence from γ -irradiated alkali halides during dissolution in KI solution. (B14). 465453
- chromosomal aberrations**
Radiation-induced chromosome aberrations in nuclear-dockyard workers. (C14, C52, C55). [Data] 482025
- comparative evaluations**
Comparison of late effects of single x-ray exposure, chronic tritiated water ingestion, and chronic cesium-137 gamma exposure in mice. (C14, C21). [Data] 479818
- compton effect**
Basic aspects on the use of elastic and inelastic scattered gamma radiation for the determination of binary systems with effective atomic numbers of less than 10. (B11). 462676
- cosmic radiation**
Observations of medium energy gamma ray emission from the galactic center region. (A15; 15 to 100 MeV). 460084
- data processing**
The processing and interpretation of airborne gamma-ray spectrometer data. (B31, F31). [Data] 469510
- delayed radiation effects**
Changes in physical endurance of rats in remote times after external γ -irradiation combined with internal irradiation with iodine 131 . (C14). 484506
- dose equivalents**
Annual environmental monitoring report, January-December 1978. (B33, B32, C21; Stanford Linear Accelerator Center). 479727
Neutron-photon multipigroup cross sections for neutron energies less than or equal to 60 MeV. (A31, A32, D15). 460248
- dose-response relationships**
Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- dosimetry**
Dosimetry studies related to irradiation of some insects with ^{60}Co γ -rays and 1.0 MeV electrons, at different dose rates. (D15, C42). 494663
- elastic scattering**
Elastic scattering of low energy γ -rays. (A12, A11). 474676
Elastic scattering of low energy γ -rays. (A12). 474677
Elastic scattering of 279 keV gamma rays. (A32). 460272
- electron channeling**
Observation of intensive gamma radiation of 900 MeV electrons on channeling in a diamond. (A13). 477951
- energy dependence**
Ionization chamber of the response independent of gamma radiation energy. (E41). 485112
- exploration**
The Pelindaba facility for calibrating radiometric field instruments. (B31). [Data] 476413
Quantitative gamma scintillometry and spectrometry in uranium exploration. (B31). [Data] 469480
- field effect transistors**
Effect of neutron and gamma irradiation on the low-frequency noise in GaAs M.E.S.F.E.T.S. (E43). 463764
- food**
Progress in food irradiation: Pakistan. (C43, C55). 482154
Progress in food irradiation: Uruguay. (C43, C55). 482157
Studies with irradiated and heated fats, oils and model substances using gas chromatography-mass spectrometry. Pt. 4. (C43). 469852
- form factors**
Elastic scattering of 279 keV gamma rays. (A32). 460272
- genetic radiation effects**
Effect of gamma irradiation of seeds on growth, sex expression and yield in *Lagenaria siceraria* standle. (C31). 482113
Gamma rays and magnetic fields-induced vivipary in *Cucumis pubescens* wild. (C41). 469841
New dahlias through irradiation. (C41). 479980
- Radiation-induced chromosome aberrations in nuclear-dockyard workers. (C14, C52, C55). [Data] 482025
Relative efficacy of gamma rays and ethyl-methane sulphonate on the frequency and spectrum of induced height mutants in rice variety Jaya. (C41). 463297
- geologic deposits**
Geochemical techniques for the prospecting of uranium ore deposits. (B31). [Data] 469499
- image processing**
Class of near-perfect coded apertures. (C62; DOE). 466403
- inelastic scattering**
Basic aspects on the use of elastic and inelastic scattered gamma radiation for the determination of binary systems with effective atomic numbers of less than 10. (B11). 462676
- iron 55**
The accurate measurement of the disintegration rate of ^{55}Fe using an internal liquid scintillation counter. (A34). [Data] 483848
- lactobacillus**
Activity of *Lactobacillus casei* and its gamma-radiation induced mutant in different types of milk. (C12). 484492
- leukemogenesis**
Dose-response relationship of neutrons and γ rays to leukemia incidence among atomic bomb survivors in Hiroshima and Nagasaki by type of leukemia, 1950-1971. (C15). 476584
- moessbauer effect**
Moessbauer transitions excited in neutron radiative capture reactions. (A33). 493190
- monitoring**
Environmental monitoring report for calendar year 1978. (B32, C15, C21). 487129
- multiple scattering**
Distribution of the scattered gamma radiation from a pulsed source. (A32). 486175
- mutation frequency**
Gamma rays and ethyl methane sulfonate induced quantitative variations in rice under different M sterility classes. (C41). 463296
- neutron reactions**
Gamma-ray production cross sections for interactions of 14.8 MeV neutrons with O, Na, Al, Cl, Cr, Fe, Ni, Cu and Pb. (A34). [Data] 481616
Study of γ -rays from fast neutron reactions. (A34). 481586
- nuclear reaction yield**
Thick-target neutron and γ -ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- oils**
Studies on changes in the oxidation stability of sunflower oil, lard and butter after gamma-irradiation. (C43). 466257
- perturbed angular correlation**
Interaction between impurities in Ag dilute alloys. (A13). 471484
TDPAC studies of radiation damage in AgPt and AgPd alloys. (A13). 492586
Temperature dependence of the electric field gradient in AgPd and AgPt alloys. (A13). 471485
- plant breeding**
Effect of fast neutrons and gamma radiation on germination, pollen and ovule sterility and leaf variations in mung bean. (C13, C41). 463083
Gamma-rays speed fruit breeding work. (C41). 463273
- plant growth**
Combined effect of morphactin and gamma radiation on growth, sex expression, and yield in *Luffa cylindrica* (Linn.) Roem. (C41). 463287
Effect of gamma irradiation of seeds on growth, sex expression and yield in *Lagenaria siceraria* standle. (C31). 482113
- prospecting**
Training course on radiometric prospecting techniques. (B31). [Data] 469473
- pvc**
Resonance Raman spectroscopic studies on degraded poly(vinyl chloride). (B14, A12). 460586
- radiation dose distributions**
Radiation monitoring in neutron-gamma fields with TLD. (E41). 474060
- radiolysis**
Radiation-induced degradation and subsequent hydrolysis of waste cellulose materials. (C11, B14). [Data] 463044
- rats**
Histological changes in rats due to various dose-intensities of gamma-irradiation. (C14). 469674
- rayleigh scattering**
Observation of anomalous behaviour of the cross section of gamma radiation Rayleigh scattering. (A32). 493129
- rbe**
Comments on 'Leukemia risk from neutrons' by H.H. Rossi and C.W. Mays, and reply by the authors. (C15). 473001
Genetic study of bacterial chromosome damage affecting recombination after exposure to radiations with varying LET. (C14). 466128
Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction. (C14, C63, C15). 487212
- reactor cores**
Gamma radiation at energy $E_{\text{sub}}(\gamma) > 20$ MeV from a reactor core. (A34). 493438
- response modifying factors**
An attempt to influence the damage induced by single and continuous irradiation by high potassium diet. (C14). 472947

- sampling**
Methodical ensuring of the methods of ore radiometric sampling. (D22). 487802
- semiconductor detectors**
Solid state radiation detector system. (D22, D15; Patent). 476857
- sex ratio**
Combined effect of morphactin and gamma radiation on growth, sex expression, and yield in *Luffa cylindrica* (Linn.) Roem. (C41). 463287
- shielding materials**
Gamma-ray spectral penetrations. (A32). 462590
- shields**
Modification of the Monte Carlo method for calculating radiation fields behind thick barriers. (A32). 464928
- side effects**
Effects of pelvic telecobalt irradiation on gonadotropin secretion. (C63). 487758
- skin absorption**
Physical factors affecting absorbed dose to the skin from cobalt-60 gamma rays and 25-MV x rays. (C15). 490992
- somatic mutations**
Mutation breeding of chrysanthemum: II. Detection of gamma ray induced somatic mutations in *vm₂*. (C41). 463282
- sterilization**
Research of ionizing radiation applications in water treatment. (D23). 484806
- thermoluminescent dosimeters**
Mixed field radiation measurements using ⁷LiF TLD. (E41). 495092
- toxicity**
Neutron and gamma-ray toxicity studies. (C14; Mice, beagles, ¹³³Xe tracer technique). 469625
- Radiation toxicity in dogs. (C14; Gamma radiation). 469626
- GAMMA RADIOGRAPHY:**
Gamma-radiography devices. (D22). 484799
- gamma sources**
Production and use of γ -radiographic ¹⁹²Ir sources in Hungary. (D14, D22). 482516
- photon emission**
Systems for detecting and recording hard corpuscular and electromagnetic radiations using a superconducting element. (E41). 474059
- radiation hazards**
New aspects of safety with gammagraphic devices. (E42, E17). 471016
- reactor components**
Mechanization of nondestructive testing methods at power engineering plants. (D22). 494667
- reliability**
New aspects of safety with gammagraphic devices. (E42, E17). 471016
- sealed sources**
Transport of Gamma Radiography Apparatus (Dangerous Goods 1978, no. 7). (F24). 463810
- specifications**
Improvements in or relating to radiography. (C61, E41). 473356
- ussr**
Nuclear technics wares, manufactured in USSR. (D14). 487786
- welded joints**
Non-destructive testing. (E17). 470438
- GAMMA SOURCES:**
(For cosmic sources of gamma radiation use COSMIC GAMMA SOURCES.)
- aerial monitoring**
Aerial radiological survey of the Weldon Spring Chemical Plant (St. Charles, Missouri). Date of survey: 11 - 14 May 1976. (B33, C52). 479695
- biological radiation effects**
Treatment of acute lung injury from external gamma irradiation with an inhaled corticosteroid. (C14). 469657
- calibration**
Microdosimetric study with cylindrical walled and wall-less proportional counters. (C11, C55). 460971
- Multigamma-ray calibration sources. (D15, D14, E41; Tables). [Data] 480300
- collimators**
Influence of secondary radiation produced by Co-60 source in the dose rate measurements. (C54). 463410
- compiled data**
Multigamma-ray calibration sources. (D15, D14, E41; Tables). [Data] 480300
- compton effect**
Gamma ray sources for Compton profile measurements. (D14). [Data] 482508
- fabrication**
Radiation sources and process. (D14). 482515
- gamma dosimetry**
Polynomial form of gamma-ray buildup factor functions. (D15, A32). [Data] 491410
- images**
Threedimensional imaging of γ -source distributions with Fresnel zone plates. (D14). 476832
- linear accelerators**
Experimental testing the system for quasi-monochromatic annihilation gamma quanta production on an electron linear accelerator by means of measuring the ⁶³Cu(γ ,n) reaction cross section. (E41, A34). 495081
- microdosimetry**
Microdosimetric properties of encapsulated ¹²⁵I and other photon sources. (D15). 476848
- radiation monitoring**
Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). 479691
- Radioactivity in the lower stratosphere. (B33, B11). [Data] 476487
- Radionuclides and trace metals in surface air. (B33, C52, B11). 476482
- radiation quality**
Measurements in internal microdosimetry with a wall-less proportional counter. (C11, C55). 460973
- remote handling equipment**
Ionizing radiation source for cast iron moulds in continuous casting equipment. (D14). 482513
- reviews**
Gamma ray sources for Compton profile measurements. (D14). [Data] 482508
- sealed sources**
Laboratory and industrial radionuclide sources of ionizing radiation. (D14). 480295
- shielding materials**
Radiation source for medical purposes. (D14, C45). 473565
- sodium 22**
Energy of a ²²Na annihilation radiation source. (D14). 494661
- spatial dose distributions**
Microdosimetric properties of encapsulated ¹²⁵I and other photon sources. (D15). 476848
- GAMMA SPECTRA:**
Modified version of SAMPO for TSO graphics analysis of nuclear spectroscopic data. (E41; In Fortran for IBM 3033). 466770
- SPKSAM: a collection of SPEAKEASY linkules for TSO graphics analysis of nuclear spectroscopic data. (E41; For IBM 3033). 466835
- corrections**
The divergence from Gaussian of peak shapes in gamma-ray spectra observed with germanium detectors. (F51, B11). 474388
- data transmission**
'Micro-8' micro-computer system. (F31). 471149
- fourier transformation**
Use of FFT for the resolution of spectral multiplet components. (F51). [Data] 495287
- interference**
Gamma-ray interferences on the determination of selenium by the INAA method. (B11). [Data] 472398
- multiplets**
Use of FFT for the resolution of spectral multiplet components. (F51). [Data] 495287
- natural radioactivity**
Natural gamma-spectra analysis of large samples. (E41). 485088
- nuclear emulsions**
Characteristics of high energy interactions - I: High energy gamma-ray spectra near the top of the atmosphere. (A15). [Data] 475287
- scattering**
The measurement of the depth of a point source of a radioisotope from gamma ray spectra. (C31). [Data] 473121
- shielding**
Photon energy spectra in the vicinity of nuclear reactors. (C55). [Data] 491251
- spectra unfolding**
The divergence from Gaussian of peak shapes in gamma-ray spectra observed with germanium detectors. (F51, B11). 474388
- Gamma-ray spectral penetrations. (A32). 462590
- A least squares spectrum fitting method for the measurement of Ge(Li) gamma-ray peak areas. (F51, B11). 474391
- Use of regularization method in activation and x-ray diffraction analysis. (F51). 495283
- GAMMA SPECTROMETERS:**
See also COMPTON SPECTROMETERS; MOESSBAUER SPECTROMETERS; PAIR SPECTROMETERS
- absorption spectroscopy**
Narrow beam condition realization in gamma-absorption analysis using gamma spectrometer. (E41). 488279
- calibration**
Energy calibration of a spectrometer using a priori information. (E41). 495110
- Multigamma-ray calibration sources. (D15, D14, E41; Tables). 480300
- North Carolina State University Nuclear Structure Research at the Triangle Universities Nuclear Laboratory. Progress report, April 1, 1978 - March 31, 1979. (A34). 475836
- Uranium exploration. (E42, B31). 477427
- coincidence spectrometry**
 $\gamma\gamma$ coincidence installation. (E41). 495052
- computers**
Transformation of a single-channel gamma spectrometer into a computer controlled multichannel analyser. (E41). 463746
- control equipment**
Measuring angular distribution of annihilation gamma photons. (E41). 485074
- cyclotrons**
Installation for study on the prompt gamma radiation in charged particle reactions on the U-150 cyclotron. (E41). 495117
- diffraction**
Crystal diffraction spectrometers. (E41). 492122
- efficiency**
North Carolina State University Nuclear Structure Research at the Triangle Universities Nuclear Laboratory. Progress report, April 1, 1978 - March 31, 1979. (A34). 475836
- electronic circuits**
Gamma ray spectrometer display means. (E41). 492132
- Transformation of a single-channel gamma spectrometer into a

- computer controlled multichannel analyser. (E41). 463746
gamma logging
 Ways for determination and control of scaling factors of well logging gamma spectrometer. (B31). 469514
low level counting
 Ultimate detection sensitivity of Ge-Li γ -ray spectrometers. (E41). 482819
preamplifiers
 Energy-dependent losses in pulsed-feedback preamplifiers. (E41). 492128
pulse circuits
 Dynamic pulse difference circuit. (E41; Patent). 492082
response functions
 A method for synthesizing response functions of NaI detectors to gamma rays. (E41). 477396
 Some experiences using a positron annihilation beam. (E16). 470386
sensitivity
 Ultimate detection sensitivity of Ge-Li γ -ray spectrometers. (E41). 495073
shielding
 Cryostat cold-finger support for shielded Ge gamma ray detectors. (E41). 474129
sodium iodides
 A method for synthesizing response functions of NaI detectors to gamma rays. (E41). 477396
 Some experiences using a positron annihilation beam. (E16). 470386
specifications
 Complete system for portable gamma spectroscopy. (E41). 474071
 Proposal for a crystal-ball detector system. (E41). 492102
standardization
 Uranium exploration. (E42, B31). 477427
tunnel diodes
 MIS-diode as a low-energy X- and γ -ray spectrometer. (E41). 470899
GAMMA SPECTROMETRY:
 See *GAMMA SPECTROSCOPY*
GAMMA SPECTROSCOPY:
capture
 A pair and escape-suppressed spectrometer using a large NaI(Tl) annulus and a Ge detector for neutron capture spectroscopy. (E41). 492167
computer calculations
 Isotopic analysis of plutonium by means of gamma spectroscopy. (B11). 478791
corrections
 Calculation of the probability of simultaneous photon emission. (F51). 474390
 The determination of gamma ray peak efficiency with self-absorption correction. (D15). 491417
data processing
 Automated complex for information retrieval and processing in the gamma-resonance spectrometry. (E41, F51). 477325
errors
 Calculation of the probability of simultaneous photon emission. (F51). 474390
exploration
 Quantitative gamma scintillometry and spectrometry in uranium exploration. (B31). [Data] 469480
fission products
 On-line nuclear half life and spectroscopic measurements on mass-separated fission product nuclei. (A34). 460347
geochemical surveys
 Aerial gamma spectroscopy to prospecting for nonradioactive ore deposits. (D22). 491430
geologic deposits
 Use of natural gamma radiation spectroscopy when studying oil and gas-bearing basins. (D22). 491419
geophysical surveys
 Technical recommendations for aerial gamma-spectrometric survey. (D22). 484792
li-drifted ge detectors
 Application of Ge(Li) detectors for gamma spectrometric analysis of environmental samples. (E41). 466832
 Evaluation of well-type Ge(Li) detectors for low-level radiochemical analysis. (E41). 466763
 In-situ environmental gamma-ray spectrometry using an upward-looking dip-stick type Ge(Li) detector. (E41). 466821
moessbauer effect
 Gamma-resonance spectroscopy on ^{57}Fe nuclei with characteristic radiation detection. (A13). 492568
 Time-domain spectroscopy of recoilless gamma rays. (E41). 470829
radiation doses
 In situ measurements with a mobile Ge(Li)-spectrometer around a nuclear power plant. (C52). 480058
simulation
 Simulation and calculation of a gamma-spectrometric experiment in dialog regime in the ES computer system. (F51). 495285
spatial resolution
 Reconstruction of the gamma nuclide spatial distribution. (F51). 495297
spent fuels
 Gamma-spectrometric determination of ^{106}Ru , ^{134}Cs , ^{137}Cs and ^{144}Ce in the fuel from the Czechoslovak atomic power station A-1. (B11). [Data] 490276
GAMMA TRANSMISSION SCANNING:
 See *PHOTON TRANSMISSION SCANNING*
GAMMA TRANSPORT THEORY:
computer calculations
 Data structures and language elements for automated transport calculations for neutron and gamma radiation. (E21, E31, F51). 461599
cross sections
 Coupled neutron and photon cross sections for transport calculations. (A34, A31, A32). 486327
data processing
 Data structures and language elements for automated transport calculations for neutron and gamma radiation. (E21, E31, F51). 461599
integral equations
 Optimum biasing of integral equations in Monte Carlo calculations. (A32, A31). 490028
multigroup theory
 Coupled neutron and photon cross sections for transport calculations. (A34, A31, A32). 486327
one-dimensional calculations
 Program system for computation of the terrestrial gamma-radiation field. (B31). 494197
spatial distribution
 Angular effects in toroidal diffusion. (A31, A32; One-group homogeneous diffusion model). 490009
GAMMA-GAMMA LOGGING:
 (Gamma source and gamma detector.)
algorithms
 Borehole compensation algorithms for a small-diameter, dual-detector density well-logging probe. (D22). 461479
correlations
 Fluid identification plot. (D22). 461470
data processing
 Solution of radioactivity logging inverse problem by regularization method. (B31). 469526
errors
 Estimation of absolute error of measuring rock volume density. (B31). 487119
pegmatites
 Microcavernometry of ore holes filled with fresh water. (B31). 487100
sampling
 Radiometric sampling of bucked copper-nickel ores for determining chemical composition. (B31). 487099
GAMMEL-CHRISTIAN-THALER THEORY:
 See *GAMMEL-THALER POTENTIAL*
GAMMEL-THALER POTENTIAL:
nuclear matter
 A correlated-basis-functions approach to realistic nuclear matter. (A33). 472170
GAMOW-TELLER DECAY:
 See *GAMOW-TELLER RULES*
GAMOW-TELLER RULES:
matrix elements
 Axial currents in nuclei: The Gamow-Teller matrix element. (A33). 468373
strength functions
 Gamow-Teller strength distribution from $^{54}\text{Fe}(\text{He}, \text{t})^{54}\text{Co}$. (A34). 490163
GAMOW-TELLER THEORY:
 See *GAMOW-TELLER RULES*
GANGA RIVER:
sediments
 Geochemistry and geochronology of sediments from the Bay of Bengal and the equatorial Indian Ocean. (B31). [Data] 494212
GANGLIONS:
growth
 Development of mouse dorsal root ganglia: an autoradiographic and quantitative study. (C31). 494358
spinal cord
 Development of mouse dorsal root ganglia: an autoradiographic and quantitative study. (C31). 494358
GARCHING, IPP:
 See *IPP GARCHING*
GARIGLIANO REACTOR:
plutonium recycle
 Experience on plutonium recycle in Italy. (F12, E31, E32). 474343
GARNETS:
 (For silicate garnets only.)
fission tracks
 Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
magnetic susceptibility
 High temperature magnetic susceptibility of some rare-earths doped yttrium gallium garnets. (B12). 481696
GAS ANALYSIS:
electron capture
 Electron capture detection of sulphur gases in carbon dioxide at the parts-per-billion level. (B11). 468656
nuclear industry
 Continuous gas dosage in nuclear industry. Techniques and prospects. (E42). 471015
photoacoustic spectrometers
 An optoacoustic radiometric cell for remote trace gas analysis. (E42). 463760
radiation sources
 Detector with a radioactive source. (E42). 470993
GAS BLANKETS:
 (For plasma confinement. For other gas blankets see COVER GAS or INERT ATMOSPHERE.)
 Cold-plasma blankets. (A14). 485691
 On the stability of localized drift modes in the boundary layers of high density gas insulated plasmas. (A14). 489288
cold plasma
 Experiments in the FOM-Instituut voor Plasmafysica at Jutphaas, the Netherlands. (A14). 489227

- electron temperature**
Measurements of electron density and temperature profiles in a gas blanket experiment. (A14). [Data] 478101
- mathematical models**
Divertor and gas blanket model and studies. (A14). 460000
- plasma heating**
A note on the heating of the cold plasma blanket in a linear fusion reactor. (A14). 475042
- GAS CENTRIFUGES:**
- counter current**
Analysis of strong countercurrent centrifuge experiments. (E11, D11). 473620
- efficiency**
Separation parameters of gas centrifuges. (D11). 487768
- hysteresis**
Investigation into the stability of converter-fed compensated hysteresis machines used to drive gas centrifuges. Pt. 1. (D11). 476826
- isotope separation**
Gas centrifuge. (D11). 473551
- orifices**
Gas centrifuge. (D11). 473551
- pipelines**
Pipeline system for gas centrifuge. (D11). 470220
- specifications**
Optimum axial flow taper in a countercurrent gas centrifuge. (D11). 487776
- systems analysis**
System analysis of plasma centrifuges and sputtering. Final report, 1 November 1976 - 31 October 1977. (D11). 487762
- GAS CHROMATOGRAPHY:**
- glow discharges**
Application of a glow discharge detector to the determination of trimethylsilyl-derivatized complex organic mixtures. (E42). 485143
- mass spectroscopy**
Negative-ion counting techniques for gas chromatography - mass spectrometry. (E42, A12). 480802
- molecular sieves**
A study of the thermal activation of synthetic zeolites (molecular sieve) for gas-solid chromatography. (B11). 472399
- zeolites**
A study of the thermal activation of synthetic zeolites (molecular sieve) for gas-solid chromatography. (B11). 462683
- GAS COOLANTS:**
See GASES
- GAS COOLED F. BREEDER REACTOR:**
See GCFR REACTOR
- GAS COOLED FAST BREED REACTORS:**
See GCFR TYPE REACTORS
- GAS COOLED GRAPHITE MODER. REA:**
See GCR TYPE REACTORS
- GAS COOLED REACTORS:**
See also AGR TYPE REACTORS; AVR REACTOR; BOHUNICE A-1 REACTOR; CARBON DIOXIDE COOLED REACTORS; CHINON-1 REACTOR; DRAGON REACTOR; DUNGENESS-B REACTOR; EGCR REACTOR; GCFR REACTOR; GCFR TYPE REACTORS; GCR TYPE REACTORS; GLEEP REACTOR; HELIUM COOLED REACTORS; HINKLEY POINT-A REACTOR; HINKLEY POINT-B REACTOR; HPRR REACTOR; HTGR TYPE REACTORS; HUNTERSTON-B REACTOR; PEACH BOTTOM-1 REACTOR; STEAM COOLED REACTORS; THTR-300 REACTOR; TREAT REACTOR; VRAIN REACTOR
- chemical radiation effects**
Radiation chemistry in gas-cooled nuclear reactors. (B14, E33). 484112
- corrosion**
Mechanical effects of corrosion: an old problem in a new setting. (B15). 472558
- france**
Gas cooled reactor experience and programs in France. (E33). 463649
- reactor components**
Synthesis of experience data for risk assessment and design improvement of gas-cooled reactors. (C52). 487495
- reactor instrumentation**
Operational and reliability experience with reactor instrumentation. (E33, E24). 477253
- reactor operation**
The background and status of the gas cooled reactor in the United Kingdom. (E33). 463642
- Gas cooled reactor experience and programs in France. (E33). 463649
- spent fuel elements**
Burner and dissolver off-gas treatment in HTR fuel reprocessing. (B16, E51). 479328
- GAS DISCHARGE TUBES:**
See also FLASH TUBES
- sensitivity**
The sensitivity of a glow discharge plasma to millimeter-wave radiation at cyclotron resonance. (A12). 464075
- streamer spark chambers**
Propagation study of the ionization fronts in a gas subject to an impulse field. (A12). 488809
- GAS FLOW:**
See also KNUDSEN FLOW
- computer codes**
Particle tracing code for multispecies gas. (F50, A13). 495264
- control systems**
Variable orifice using an iris shutter. (E13; Patent). 470330
- electron density**
Effect of gas flow rate on the spatial distribution of excitation temperature and electron number density in an atmospheric pressure radio frequency argon plasma. (A14). 492807
- The hollow cathode arc discharge. (A14). 492828
- electron temperature**
Effect of gas flow rate on the spatial distribution of excitation temperature and electron number density in an atmospheric pressure radio frequency argon plasma. (A14). 492807
- expansion**
Automodel rotation of an ideal gas. (A14). 492729
- film condensation**
Condensation in a tube from the azeotropic mixture flow in the approximation of a boundary layer with suction. (E11; N₂O₄ reversible 2NO₂ reversible 2NO + O₂). 487831
- flow rate**
Measured air flow rates through microorifices and flow prediction capability. Topical report. (E11). 466486
- heat flux**
Application of two-equation turbulence models to turbulent gas flow heated by a high heat flux. (E33). [Data] 480658
- mass transfer**
Disposition for the determination of the mass of gases flowing in pipelines. (E11). 466483
- measuring instruments**
The hollow cathode arc discharge. (A14). 492828
- nitrogen oxides**
Condensation in a tube from the azeotropic mixture flow in the approximation of a boundary layer with suction. (E11; N₂O₄ reversible 2NO₂ reversible 2NO + O₂). 487831
- quantity ratio**
Species-specific Raman spectroscopic measurements of concentration fluctuations in unsteady flow. (B11). 478796
- raman spectra**
Species-specific Raman spectroscopic measurements of concentration fluctuations in unsteady flow. (B11). 478796
- GAS FUELED REACTORS:**
See also PLASMA CORE ASSEMBLY
- Gaseous-fuel reactor systems for aerospace applications. (E38). 461812
- reviews**
Results of a study in the chamber nuclear reactor with gaseous fuel. (E30, A14). 482729
- GAS LASERS:**
See also CARBON DIOXIDE LASERS
- Neutrons and lasers. (A31, A13). 468227
- electric discharges**
Anomalous resistivity of a gaseous discharge in repulse regime. (A14). 471689
- excitation**
Optimum photolytic production of excited states and collisional phenomena for laser fusion applications. Final report. (A14). 474956
- laser radiation**
Theoretical model of the KrF laser in direct discharge. (A14). 492743
- laser-produced plasma**
Pulsed-CO₂-laser interaction with aluminum in air: Thermal response and plasma characteristics. (A14). 485772
- nuclear pumping**
Nuclear pumping of XeF(B), a candidate laser fusion driver. (A14). 462370
- Nuclear-pumped laser coupling to inertial confinement fusion. (A14). 462353
- optical pumping**
Anomalous dispersion and the pumping of far infrared (fir) lasers. (D14). 487788
- Electron-beam pumped XeCl excimer laser. (A14). [Data] 481206
- performance**
Advanced lasers for fusion applications. (A14). 485759
- research programs**
Iodine laser program. (A14). 464241
- Kinetic processes in photolytically produced group VI 'S atoms. (A14). 464242
- Laser program annual report, 1977. Volume 2. (A14, B12, D13, D11). 485661
- New-laser research and development. (A14). 464243
- x radiation**
X-ray preionization for electric discharge lasers. (A13). 464190
- GAS SCINTILLATION DETECTORS:**
- data processing**
Large-area, two-dimensional position sensitive detectors. (E41). 492133
- energy resolution**
Efficient, gaseous detector with good low-energy resolution for (less than or equal to 50 keV) imaging. (C62, B11). 473437
- Large-area scintillation proportional counter for x-ray astronomy. (E41). 466750
- gemma spectrometers**
Study on spectrometric characteristics of optical gas-discharge chambers under conditions of pulse proportional amplification. (E41). 477409
- neutron detection**
Detector for high-intensive neutron fluxes on the base of gas scintillators with selective level population. (E41). 495093
- performance**
Basic properties and physics parameters of gas scintillation detectors. (E41). 482848

- position sensitive detectors**
Large-area, two-dimensional position sensitive detectors. (E41). 492133
- proportional counters**
A gas proportional scintillation counter for use in large area detector systems without photomultipliers. (E41). 485024
- soft x radiation**
Design and characteristics of a gas electroluminescent detector of soft X-radiation. (E41). 477350
- spatial resolution**
Efficient, gaseous detector with good low-energy resolution for (less than or equal to 50 keV) imaging. (C62, B11). 473437
- spectra unfolding**
Improved MATXUF: on-line uncertainty calculation and Benjamin detector unfolding. (E41, F51). 492134
- XENON**
Solid-gas Xe gamma radiation detector. (E41). 463737
- GAS TRACK DETECTORS:**
See also *BUBBLE CHAMBERS; CLOUD CHAMBERS; CRYOGENIC BUBBLE CHAMBERS; DIFFUSION CHAMBERS; SONIC SPARK CHAMBERS; SPARK CHAMBERS; STREAMER SPARK CHAMBERS; WIDE GAP SPARK CHAMBERS; WIRE SPARK CHAMBERS*
- GAS TUNGSTEN-ARC WELDING:**
pulses
Experience with pulsed tig-welding at UKAEA Springfields. (B21). 493901
Pulsed tig-welding in production. (B21). 493878
Tube welding by the pulsed tig method. (B21). 493872
- GAS TURBINES:**
closed-cycle cooling systems
Closed-cycle gas turbines for HTR nuclear power plants and LNG regasification plants. (E33). 484970
Direct-cycle HTGR work draws near prototype development. (E33; Using closed cycle gas turbines). 466708
- corrosion protection**
Thermal barrier coatings: Burner rig hot corrosion test results. Final report. (B15). 486781
- electroslag welding**
Welding in the USSR. (B21, E22). 472611
- helium**
Forty years of experience on closed-cycle gas turbines. (E33). 463645
The Oberhausen helium turbine. (E33, E22). 470723
- htgr type reactors**
Closed-cycle gas turbines for HTR nuclear power plants and LNG regasification plants. (E33). 484970
- neutron radiography**
Improvements in equipment and method for diagnosing fluid movements within engines. (E17). 477096
Neutron radiography: status report. (E17). 473746
- operation**
The high-temperature helium test plant (HHV). (E33, E22). 470714
- research programs**
HTGR gas turbine program. Semiannual progress report for the period ending March 31, 1979. (E33). 494964
- specifications**
HTGR gas turbine program. Semiannual progress report for the period ending March 31, 1979. (E33). 494964
- GAS WELLS:**
See *WELLS*
- GASEOUS DIFFUSION:**
perturbation theory
Perturbation treatment of thermal motions in gaseous ion-transport theory. (A12). 477821
- GASEOUS DIFFUSION PLANTS:**
See also *PORTSMOUTH GASEOUS DIFFUSION P*
Improvement to gaseous diffusion isotopic enrichment unit equipped with motor-compressors. (D11). 470216
- air pollution**
Terrestrial Ecology Section. (C52). 480073
- environment**
Terrestrial Ecology Section. (C52). 480073
- eurodif**
First enriched uranium from Tricastin. (D11). 491382
- forecasting**
Uranium enrichment by gaseous diffusion. (D11). 473547
- france**
First enriched uranium from Tricastin. (D11). 491382
- inventories**
Minor isotope measurements for safeguarding a uranium enrichment plant. (F41, D11). 480930
Possible estimation of in-process inventory in enrichment cascades. (D11, F41). 491387
- pressure vessels**
Fabrication of the diffuser rings for USS1 EURODIF-Tricastin plant. (D11). 463482
- safeguards**
Minor isotope measurements for safeguarding a uranium enrichment plant. (F41, D11). 480930
Use of minor uranium isotope measurements as an aid in safeguarding a uranium enrichment cascade. (F41, D11). 462038
- valves**
Double-disc gate valve. (D11, E13; Patent). 487777
- GASEOUS DIFFUSION PROCESS:**
Freezer-sublimator for gaseous diffusion plant. (D11; Enrichment of UF₆; Patent). 461443
Gaseous diffusion system. (D11; Patent). 473540
- gas centrifugation**
Device for continuous isotope-separation of heavy elements from gaseous compounds, e.g. uranium hexafluoride. (D11). 480282
- laser isotope separation**
Laser alteration of accommodation coefficient for isotope separation. (D13). 461450
- membranes**
Separation of gases by porous membrane method. (D11). 491388
- optimization**
Improvement of the mass-diffusion separation cascade efficiency by introducing asymmetric schemes of unit linkage. (D13). 466443
- pilot plants**
Separation of argon isotopes by porous membrane method. (1). (D13). 470234
- pulse techniques**
²³⁵U enrichment by pulse gas diffusion. (D11). [Data] 463483
- GASEOUS EFFLUENTS:**
See *GASEOUS WASTES*
- GASEOUS WASTES:**
See also *FLUE GAS*
- aerial monitoring**
Monitoring methods for radioactive noble gases in airborne effluents from nuclear power plants. (C55, E41). 470015
- chemical radiation effects**
Radiation methods for liquid and aaseous wastes purification. (B14). 479253
Radiation treatment of exhaust gases. (B14, D23). [Data] 468981
- dose limits**
Establishing exposure limits for chemical pollutants. (C52). 482213
- dual-purpose power plants**
Applied systems analysis no. 11: Introduction of nuclear long-distance energy. (E33, C52). [Data] 470689
- inhalation**
Biological effects of chronic inhalation of coal mine dust and/or diesel engine exhaust in rodents. (C52; Rats). [Data] 473235
- meteorology**
Dispersion of pollutants in the atmosphere over rough surfaces. (B33). 481957
- off-gas systems**
Method of processing radioactive gas. (E51). 482908
- radiation monitoring**
Monitoring of gaseous effluents in Ontario Hydro. (C55, E41). 470001
Regular control of monitors for effluents from nuclear power plant stacks. (E41). 492162
- radioactive waste processing**
Gaseous waste processing device in nuclear power plant. (E51). 474226
- radioactive waste storage**
Method of storing radioactive gaseous wastes. (E51). 474223
- radioactive wastes**
The generation of radiolysis gases from low- and medium-level radioactive waste solidification products. (E52, B14). 474277
Radiochromatographic system for off-gas decontamination at the WWER nuclear power plants. (E51). 466879
- radioactivity**
¹⁴C activity and distribution in gaseous effluents from pressurized water reactors. (B33). 472897
- radiolysis**
The generation of radiolysis gases from low- and medium-level radioactive waste solidification products. (E52, B14). 474277
Technique for radiation treatment of exhaust gas due to combustion. (D23). 470277
- rare gases**
Monitoring methods for radioactive noble gases in airborne effluents from nuclear power plants. (C55, E41). 470015
- tritium**
Method for removing tritium. (E51). 492242
- tritium target**
Fifteen years of experience in handling tritium problems in connection with low-energy particle accelerators. (C52). [Data] 491194
- waste processing**
Pilot plant experiment of N₂sub(x) and SO₂ removal from exhaust gases by electron beam irradiation. (D23, B14). [Data] 463502
Technique for radiation treatment of exhaust gas due to combustion. (D23). 470277
- GASES:**
(See also *ELECTRON GAS* and *FERMI GAS*)
See also *AIR; COSMIC GASES; IONIZED GASES; LORENTZ GAS; NATURAL GAS; SURFACE AIR; VAPORS; WATER VAPOR; WEAKLY IONIZED GASES*
- boltzmann equation**
Boltzmann behaviour of a spatially inhomogeneous gas. (A11). 492393
- charged-particle transport**
Semiclassical perturbation theory of electron-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
Symmetry properties of the transport coefficients of charged particles in disordered materials. (A13). 492569
- chemical reaction kinetics**
Derivation of elementary reaction rate constants by means of computer modeling. (B12). 460465
Evaluation of reaction kinetics for gas-powder systems. (B12, B15). 493717
Some aspects of the evaluation of kinetic data. (B12). 460439
- collisions**
Model for nonequilibrium time-dependent unimolecular reactions. Single collision approximation. (B12). 486631
- corrosion**
Erosion/corrosion of turbine airfoil materials in the high-velocity effluent of a pressurized fluidized coal combustor. (B15). 486789

- cross sections**
Determination of the stopping cross-sections of N_2 , H_2 , CH_4 , C_2H_6 and C_3H_8 using alpha particles in the range 1.3-4.2 MeV. (A32, C55). [Data] 472132
- dielectric properties**
Examination of the breakdown properties of pure and mixed accelerator tank gases. (E16). 494743
- electric discharges**
Electrical breakdown of gases. (A13; Book). 485622
- electron mobility**
Response to "Parity and differentiability restrictions on the electric field dependence of the mobility of charged particles in gases and liquids". (B14). 468942
- equations of state**
Some aspects of equations of state. (A13, A11; Detonating gases; repulsive point centers or hard-sphere fluid). 471462
Thermodynamics of dilute gases: application to submonolayer He films. (A11). [Data] 485374
- information systems**
The "GAPHYOR" system: A computerized retrieval system of the properties of atoms, molecules, gases and plasmas. (F31). 482953
- ion collisions**
Ion-induced continuum x-ray emission. (A12). 477816
- ion-molecule collisions**
Vibrational excitation from heterogeneous catalysis. (B12). 486654
- isothermal processes**
Thermodynamics of dilute gases: application to submonolayer He films. (A11). [Data] 485374
- neutron diffraction**
Slow neutron scattering by molecules. (A31). [Data] 460259
- quantitative chemical analysis**
The gas ion probe: a novel instrument for analyzing concentration profiles of gases in solids. (B11). 460407
- self-diffusion**
Scaled Boltzmann theory for k-dependent test particle correlation functions in moderately dense gases. (A11). 474427
- thermal conductivity**
Dependence of an acoustically nonresonant optoacoustic signal on pressure and buffer gases. (E11). 470307
- virial equation**
On the second virial coefficient determination in the low temperature range. (B24; He, Ne, Ar, Kr, F₂, N₂, O₂, CH₄, C₂H₆, C₃H₈, CO₂). 479514
- GASIFICATION:**
(Any technique for converting coal or other products into gaseous fuel. For other types of gasification, see EVAPORATION, BOILING, or DISTILLATION.)
- helium cooled reactors**
Coal gasification using nuclear power. (E33). 482776
- GASKETS:**
- aluminium**
Development of aluminum gaskets. (E16). 482626
- GASTEROPODS:**
See MOLLUSCS
- GASTRIN:**
- radioimmunology**
Radioimmunological investigations of gastrin content in blood in case of complicated forms of gastric ulcer. (C62). 482441
- GASTROINTESTINAL TRACT:**
See also *INTESTINES; LARGE INTESTINE; RECTUM; SMALL INTESTINE; STOMACH*
- actinides**
The gastrointestinal absorption of plutonium and americium in the hamster. (C21). [Data] 473094
- acute irradiation**
Limited epithelial carcinoma of the ovary treated with curative intent by the intraperitoneal installation of radiocolloids. (C15, C63, C64; ¹⁹⁸Au colloid or ³²P-colloidal chromic phosphate + ⁶⁰Co or 2 MeV Bremsstrahlung external pelvic irradiation). 461076
- biological radiation effects**
Biological and environmental behavior of plutonium. (C21, B33, C22, C52; Risk of cancer fatalities in populations exposed by dispersal of reactor plutonium). 473044
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 487254
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
- Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). 494346
- Sequential hemi-body radiotherapy in advanced multiple myeloma. (C15, C63; Side effects of indicated x-ray therapy). 469700
- biomedical radiography**
Anatomo-roentgenological and clinical forms of gastrointestinal tract lymphogranulomatosis. (C61). 480215
- Radiation burden of patients from alimentary canal examinations. (C55). 482282
- cuex**
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- delayed radiation effects**
Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
- diagnostic techniques**
Non-invasive investigation of the upper gastrointestinal tract using technetium - 99m. (C62). 463465
- dose commitments**
Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
- AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
- Internal dosimetry data and methods of ICRP. Part 1. (C21, D15). 487285
- early radiation effects**
Effect of selected drugs on first-stage radioemesis in beagle dogs. (C14; Following x irradiation of abdomen). 490953
- Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- gamma radiation**
Effect of dose rate on intestinal tolerance in mice. Implications in radiotherapy. (C14, C63, C55). [Data] 490976
- metabolic diseases**
Digestive tract. (C62; Radionuclide studies). 482421
- radiation doses**
Biological and environmental behavior of plutonium. (C21, B33, C22, C52; Risk of cancer fatalities in populations exposed by dispersal of reactor plutonium). 473044
- radionuclide kinetics**
Absorption and retention of plutonium-238 nitrate and oxide in neonatal swine after inhalation. (C21). 473098
- Absorption of cadmium in the newborn and juvenile guinea pig. (C21; /sup 115mCd, rats). 461106
- Internal dosimetry data and methods of ICRP. Part 1. (C21, D15). 487285
- retention functions**
Gastrointestinal transit in the pig: measurement using radioactive lanthanides and comparison with sheep. (C31). 461138
- scintiscanning**
Evaluation of inflammatory bowel disease with /sup 99mTc-DTPA. (C62, C31). 470114
- Evaluation of the emptying dynamics of the stomach by means of gastric scintiscanning. (C62). 470183
- GATING CIRCUITS:**
- liquid scintillation detectors**
Simple linear transmitter. (E41). 495138
- GAUGE INVARIANCE:**
Effects of topological charge in gauge theories. (A11). 492404
- cabibbo angle**
Cabibbo angle in the SU(2)/sub L/ x U(1) gauge theories. (A21, A11). 464871
- chiral symmetry**
Nonlinear models as gauge theories. (A21, A11). 486012
- duality**
Dual transformation in non-Abelian gauge theories. (A21, A11). 489880
- Dual transformation in Abelian gauge theories. (A11). 477681
- Duality for Z(N) gauge theories. (A11). 471259
- Field-strength and dual variable formulations of gauge theory. (A11). 467060
- electromagnetic interactions**
Supersymmetric gauge theories and their possible applications for electromagnetic and weak interactions. (A11, A21). 474524
- euclidean space**
A non-singular spherically symmetric separable copy of the vacuum in SU(2) Landau gauge. (A11). 488684
- feynman path integral**
Diagrammatics of gauge transformations for general gauge theories. (A11). 467062
- Path-integral measure for gauge-invariant fermion theories. (A11). 485307
- functional analysis**
A functional equation for exponential loop integrals in gauge theories. (A11). 467027
- Gauge fields. (A21). 462555
- hypercharge**
Embedding weak-hypercharge in strong gauge group. (A21). 481383
- instantons**
Wave functions and energy for the vacuum and heavy quarks from the WKB Schrodinger equation for massive gauge theories with instantons. (A21, A11). 468038
- integrals**
A functional equation for exponential loop integrals in gauge theories. (A11). 467027
- invariance principles**
Introduction to supersymmetry and its applications to particle interactions. (A21). 462544
- magnetic monopoles**
Exact monopole solutions in gauge theories for an arbitrary semisimple compact group. (A11). 488659
- minkowski space**
Infrared regularizations in a model gauge theory. (A11). 467041
- nonlinear problems**
Nonlinear models as gauge theories. (A21, A11). 486012

- quantum chromodynamics**
 Gauge theories. (A11). 477651
 Unambiguous field-strength formulation and dual potentials for gauge theories. (A11). 467059
- quantum electrodynamics**
 Unambiguous field-strength formulation and dual potentials for gauge theories. (A11). 467059
- quantum field theory**
 Quantizing gauge theories: non-classical field configurations, broken symmetries and gauge copies. (A11). 483124
- renormalization**
 Asymptotic freedom. (A21). 462564
- reviews**
 Neutral currents and gauge theories: past, present, and future. (A21). 460212
- space-time**
 Gribov's ambiguities and horizons. (A21, A11). 489765
- su groups**
 Non-abelian gauge theory in two dimensions. (A21). 468057
- su-2 groups**
 Vacuum expectation values of Higgs scalars in a SU(2)/sub L/ x SU(2)/sub R/ x U(1) gauge model. (A21, A11). 475598
- su-4 groups**
 Lattice-gauge-theory spectrum for broken SU(4). (A21, A11). 475525
- Super-Lagrangians. (A21, A11).** 478407
- symmetry**
 Hidden gauge symmetry. (A21). 462567
- symmetry breaking**
 Hidden gauge symmetry. (A21). 462567
 Implications of dynamical symmetry breaking: An addendum. (A21, A11). 475639
- topology**
 Topological methods for gauge theories. (A11). 492488
- two-dimensional calculations**
 Non-abelian gauge theory in two dimensions. (A21). 468057
- u-1 groups**
 Vacuum expectation values of Higgs scalars in a SU(2)/sub L/ x SU(2)/sub R/ x U(1) gauge model. (A21, A11). 475598
- vacuum states**
 A non-singular spherically symmetric separable copy of the vacuum in SU(2) Landau gauge. (A11). 488684
- ward identity**
 Path-integral measure for gauge-invariant fermion theories. (A11). 485307
- weak interactions**
 Gauge theories in electromagnetic and weak interactions. (A21). 462558
 Supersymmetric gauge theories and their possible applications for electromagnetic and weak interactions. (A11, A21). 474524
- GAUGE TRANSFORMATIONS:**
 See GAUGE INVARIANCE
- GCFR REACTOR:**
 Gas-cooled fast breeder reactor. Updated design for a helium circulator test facility. (E35). 488139
- fission product release**
 Fission product release and transport in gas-cooled fast breeder reactor sealed and vented irradiation experiments. (E35). 473969
- fuel assemblies**
 Application of COBRA*GCFR to the CFTL bundle. (E35). 488132
- Core Flow Test Loop (CFTL) program. (E35).** 491972
- fuel elements**
 Stoichiometry effects on GCFR mixed oxide fuel behavior. (E35). 488152
- fuel rods**
 Evaluation of error bands and confidence limits for thermal measurements in the CFTL bundle. (E35). 488129
- Fission product release and transport in gas-cooled fast breeder reactor sealed and vented irradiation experiments. (E35).** 473969
- Fuel deformation in a loss-of-flow accident in the gas-cooled fast breeder reactor. (C52, E35).** 494443
- Modeling of isotopic fission gas release in the GCFR vented fuel rod. (E35).** 488128
- loss of flow**
 Fuel deformation in a loss-of-flow accident in the gas-cooled fast breeder reactor. (C52, E35). 494443
- reactor accidents**
 FRAP-GCFR: a code for the transient analysis of gas-cooled fast reactors. (C52, E35). 491183
- reactor core disruption**
 GRIST-2 preliminary test plan and requirements for fuel fabrication and preirradiation. (C52, E35). 473275
- GCFR TYPE REACTORS:**
 See also GCFR REACTOR
 Balancing the safety of a gas cooled breeder reactor design by using the probabilistic and fault tree analysis method. (C52, E35). 487443
- Gas-Cooled Reactors: the importance of their development. (E33, E35, E30).** 461720
- after-heat removal**
 PHAETON 2 flow coast-down calculations including natural convection in helium cooled fast reactors. (E35). 488171
- breeding blankets**
 Economic performance of liquid-metal fast breeder reactor and gas-cooled fast reactor radial blankets. (E35). 488168
- depressurization**
 Transient analyses of a 1000-MW gas-cooled fast reactor. (C52, E35). 469979
- economics**
 Gas-cooled reactors: the importance of their development. (E33, E35). 491925
- fuel cycle**
 Gas-cooled reactors: the importance of their development. (E33, E35). 491925
- fuel elements**
 Determination of the slope and intercept of the universal velocity profile from pressure loss measurements. (E35). 491981
- GFB fuel element development. (E35, E23).** 491985
- fuel pins**
 Cesium chemistry in GCFR fuel pins. (E35). 488137
- Sealed connection between fission gas outlet ducts. (E35).** 470755
- heat transfer**
 Heat transfer in gas cooled fast reactor cores. (E35). 463669
- helium cooled reactors**
 Nuclear reactor where a cooling fluid is flown through the core and other parts able to induce an unacceptable pollution of said fluid. (E35; shield corrosion protection in helium cooled fast reactors). 463683
- loss of flow**
 Transient analyses of a 1000-MW gas-cooled fast reactor. (C52, E35). 469979
- melt-down**
 Growth of internally-heated core debris pools into soluble and insoluble structures. (C52, E35; GCFR type reactors). 461172
- nitrogen oxides**
 Methods of calculating thermal characteristics of fast reactors with dissociating coolant. (E35, E36). 470765
- operation**
 Design and safety of a 1000 MWe gas breeder power plant. (E35, C52). 491973
- planning**
 GFB fuel element development. (E35, E23). 491985
- pressure vessels**
 PCRV design verification and support at Oak Ridge National Laboratory. (E33, E35). 494962
- reactor accidents**
 Application of probabilistic analysis for comparison of post accident fuel containment schemes for a 300 MW(e) GCFR. (C52, E35). 487448
- FRAP-GCFR: a code for the transient analysis of gas-cooled fast reactors. (C52, E35).** 491183
- reactor cooling systems**
 Nuclear reactor. (E35). 488140
- reactor cores**
 Nuclear power plant with gas cooled reactor core. (E35). 473948
- reactor lattices**
 Monte Carlo computation of directional diffusion coefficients. (E35; GCFR type reactors). 473959
- specifications**
 Design questions of gas cooled fast reactors. (E35). 463690
- thermal power plants**
 Design and safety of a 1000 MWe gas breeder power plant. (E35, C52). 491973
- thorium cycle**
 Thorium fuel cycle: a nuclear strategy and fuel recycle technology. (F12, E31, E32, E35, E33). 462003
- GCR TYPE REACTORS:**
 See also CHINON-1 REACTOR; HINKLEY POINT-A REACTOR
- gas flow**
 Method for the separation of carbon dioxide in the presence of steam from a noble gas flow. (E33, E13). 482780
- reactor cooling systems**
 Exchangers with thermal boundary layer renewal: splitters and chevrons in gas reactors. (E33). 491933
- GE DETECTORS (HIGH-PURITY):**
 See HIGH-PURITY GE DETECTORS
- GE SEMICONDUCTOR DETECTORS:**
 See also HIGH-PURITY GE DETECTORS; LI-DRIFTED GE DETECTORS
- crystal growth**
 Fast and slow quenching defects in germanium. (E41, B24; In hydrogen atmospheres at 430 C.). 466794
- energy resolution**
 Radiation damage of germanium detectors. (E41). [Data] 461851
- monte carlo method**
 A Monte-Carlo evaluation of an improved-sensitivity ⁷⁶Ge double-beta-decay experiment. (E41, A34). 477319
- physical radiation effects**
 Detector applications. (E41, E43). 470932
- Radiation damage of germanium detectors. (E41). [Data]** 461851
- power supplies**
 A battery powered high voltage bias supply for Ge detectors. (E41). 492076
- sensitivity**
 A Monte-Carlo evaluation of an improved-sensitivity ⁷⁶Ge double-beta-decay experiment. (E41, A34). 477319
- uses**
 Detector applications. (E41, E43). 470932
- GE(LI) DETECTORS:**
 See LI-DRIFTED GE DETECTORS
- GEESTHACHT-1 RESEARCH REACTOR:**
 See FRG-1 REACTOR
- GEESTHACHT-2 RESEARCH REACTOR:**
 See FRG-2 REACTOR
- GEGENSCHNEID:**
 See ZODIACAL LIGHT
- GEIGER-MUELLER COUNTERS:**
acetylene
 Geiger-Mueller counters for measuring tritium. (E41). 482836
- charged particle detection**
 Charged particle counters in the pre-modern period. (E41). 485028

- reactor sites**
Application of GM counters in the continuous monitoring of the environment. (E41). 480757
- sensitivity**
The fast neutron sensitivity of a Geiger-Mueller counter photon dosimeter by the time-of-flight technique. (E41). 492121
A modified lead attenuation method to determine the fast neutron sensitivity ksub(U) of a photon dosimeter. (E41). 492109
- GELATION:**
chemical radiation effects
Effect of addition of an inorganic acid or alkali on gelation of polyvinylpyrrolidone aqueous solution by gamma-ray irradiation. (B14). 476182
- GELS:**
calcination
Application of thermal analysis methods in the study of sintered uranium dioxide preparation. II. (B23). 484287
storage
Ageing of uranyl gel spherical particles. (B23). 479474
- GEMEINSCHAFTSKERNKRAFTWERK NEC:**
See **NECKAR REACTOR**
- GEN. ELECTRIC TEST REACTOR:**
See **GETR REACTOR**
- GENE LOCI:**
See **GENES**
- GENE MUTATIONS:**
chemical analysis
Hemoglobin of mice with radiation-induced mutations at the hemoglobin loci. (C14). 487225
radiosensitivity
Effects of the rad52 gene on recombination in *Saccharomyces cerevisiae*. (C12; Comparison of γ -, uv-induced meiotic and spontaneous mitotic recombination). [Data] 479803
tritium oxides
Induction of specific-locus mutations in the mouse by tritiated water. (C21). [Data] 491043
- GENE RECOMBINATION:**
biological radiation effects
Recombination of bacteriophage phiX174 by the red function of bacteriophage lambda. (C12; Uv radiation). [Data] 461018
genetic variability
Genetic and physiological factors affecting repair and mutagenesis in yeast. (C12). [Data] 494281
radiation effects
Effects of the rad52 gene on recombination in *Saccharomyces cerevisiae*. (C12; Comparison of γ -, uv-induced meiotic and spontaneous mitotic recombination). [Data] 479803
Radiation induced asymmetries in mitotic recombination: evidence for a directional bias in the formation of asymmetric hybrid DNA in yeast. (C12). [Data] 479792
ultraviolet radiation
Factors affecting recombinant frequency in protoplast fusions of *Streptomyces coelicolor*. (C11, C12). [Data] 472906
- GENERAL QUANTUM FIELD THEORY:**
See **AXIOMATIC FIELD THEORY**
- GENERAL RELATIVITY THEORY:**
Covariant theory of gravitation using Yang-Mills fields. I. (A11). 459658
Covariant theory of gravitation using Yang-Mills fields. II. (A11). 459659
Einstein and relativity. (A11). 462072
Plane of polarization rotation induced by a non-Minkowskian spacetime. (A11, A15). 459669
Relativity theory - topical. (A11). 467124
Static and near to static semiclosed configurations and the cosmological constant. (A11, A15). 467055
Torsion without torsion. (A11). 477657
acceleration
Coupled inertial and gravitational effects in the proper reference frame of an accelerated, rotating observer. (A11). 488661
analytical solution
Modified theory of gravitation with regular solutions. (A11). 482999
astronomy
Astronomical tests of general relativity. (A15, A11). 492982
canonical dimension
Canonical coordinates in stationary axially symmetric configurations. (A11). 462088
canonical transformations
Canonical decomposition of the general relativistic initial value problem. (A11). 488652
cauchy problem
The Cauchy problem on a manifold. (A11). 471218
center-of-mass system
The centre of mass in general relativity. (A11). 492481
The uniqueness of the center of mass in general relativity. (A11). 492482
charge carriers
On rotating charged dust in general relativity. (A11). 492438
charged particles
Charged point particles with magnetic moment in general relativity. (A11). 459655
conformal invariance
General relativity and conformal invariance. (A11, A15). 462094
General relativity and conformal invariance. (A15). 462484
conservation laws
On a new variational principle in general relativity and the energy of the gravitational field. (A11). 488648
coordinates
On the theory of transformations of coordinates for massive systems of reference. (A11). 474516
- cosmological models**
Cosmology after Einstein. (A11). 463909
The large numbers hypothesis and the Einstein theory of gravitation. (A11, A15). 467032
- cosmology**
Lectures on general relativity and cosmology. (A15, A11). 489593
Relativity today. (A11). 462078
- de sitter group**
de Sitter gauge invariance and the geometry of the Einstein-Cartan theory. (A11). 488727
- deformation**
Surface deformations, their square root and the signature of spacetime. (A11). 483116
- differential topology**
The use of exterior forms in Einstein's gravitation theory. (A11). 474529
- dusts**
On rotating charged dust in general relativity. (A11). 492438
- einstein field equations**
Radiating fluid spheres in general relativity. (A15, A11). 489415
Remarks on certain separability structures and their applications to general relativity. (A11). 471209
- energy conservation**
On gravitational wave energy in the Einstein gravitation theory. (A11). 485370
- energy losses**
A solvable model for radiation damping. (A11). 482996
- equations of motion**
Coupled inertial and gravitational effects in the proper reference frame of an accelerated, rotating observer. (A11). 488661
Differential constants of motion for systems of free gravitating particles. (A11). 471231
Equations of motion and radiation reaction in the special and general theory of relativity. (A11). 483045
The problem of motions up to the second post-Newtonian approximation is general relativity theory. (A11, A15). 488537
- equivalence principle**
Equivalence principle, gravitational collapse, and the classical particle problem. (A11). 462065
The principle of general covariance and the principle of equivalence: two distinct concepts. (A11). 485301
- field equations**
Quadratic Lagrangians and Palatini's device. (A11). 488562
- gauge invariance**
Infrared gravitons in a ghost-free axial gauge. (A11). 488669
- gravitation**
Strong spin-two interaction and general relativity. (A11, A21). 474522
- gravitational collapse**
The evolving, flowless drainhole: a nongravitating-particle model in general relativity theory. (A11). 471228
Time functions in numerical relativity: Marginally bound dust collapse. (A15, A11). 485867
- invariance principles**
First-order invariant Einstein-Cartan variational structures. (A11). 471246
- kerr metric**
Remarks on certain separability structures and their applications to general relativity. (A11). 471209
- lagrangian field theory**
Indefinite-metric quantum field theory of general relativity. 2. (A11). 481000
- lagrangian function**
First-order invariant Einstein-Cartan variational structures. (A11). 471246
On the generally invariant Lagrangians for the metric field and other tensor fields. (A11). 488686
- lattice field theory**
Lattice formulation of general relativity. (A11). 474434
- mach principle**
Theory of relativity and Mach's principle. (A11). 483000
- many-body problem**
The periastron advance in the second post-Newtonian approximation in general relativity. (A11, A15). 488536
The problem of motions up to the second post-Newtonian approximation is general relativity theory. (A11, A15). 488537
- mass**
Is active gravitational mass equal to inertial mass. (A11). 471230
- measuring methods**
Tests of gravitational theories using space probes. (A11). 485295
- nonlinear problems**
Properties of general relativistic kink solution. (A11). 459683
- orbits**
Relativistic Kepler problem. II. Asymptotic behavior of the field in the infinite past. (A11). 488738
Relativistic Kepler problem. I. Behavior in the distant past of orbits with gravitational radiation damping. (A11). 488737
- particle kinematics**
Differential constants of motion for systems of free gravitating particles. (A11). 471231
- pulsars**
Measurements of general relativistic effects in the binary pulsar PSR1913 + 16. (A15, A11). [Data] 481312
- quantum field theory**
Indefinite-metric quantum field theory of general relativity. 3. (A11). 481001
Indefinite-metric quantum field theory of general relativity. (A11). 467096

- red shift**
Gravitational redshift of the white dwarf omicron² Eri B. (A15, A11). 475441
- rotation**
Rotation in general relativity. (A15). 475363
- self-energy**
Positive energy in general relativity. (A11). 485309
- space-time**
Hauser space-time in general relativity. (A11). 471309
New general relativity. (A11). 488625
Space, time, and gravity. The theory of the big bang and black holes. (A11, A15; Book). 467141
- star evolution**
Code for general relativistic stellar evolution. (A15). 464649
- structure functions**
Description of particles with internal structure in general relativity. (A11). 483115
- surfaces**
Spherically symmetric surface layers in general relativity -correction of an error. (A11). 471283
- symmetry groups**
Inhomogeneous local gauge transformations in spacetimes with torsion. (A11). 477616
- tachyons**
Absence of tachyons in supergravity and classical relativity. (A11). 488585
- time measurement**
Chronogeometry and the dyadic method in general relativity theory. (A11). 474513
Tests of gravitational theories using space probes. (A11). 485295
- torsion**
Birkhoff theorem for an $R + R^2$ theory of gravity with torsion. (A11). 485357
Hojman-Rosenbaum-Ryan-Shepley torsion theory and Eoetvoes-Dicke-Braginsky experiments. (A15, A11). 485912
- unified gauge models**
Gauge theories of gravitation. (A11, A21). 492497
Self-dual gauge fields and space-times. (A11). 483030
- vacuum states**
Cylindrically symmetric stationary fields in general relativity. (A11). 459703
- variational methods**
Metric-affine variational principles in general relativity. (A11). 462079
On a new variational principle in general relativity and the energy of the gravitational field. (A11). 488648
On the correct usage of the Palatini principle in gravitational theories. (A11). 488701
- variations**
Non-Reiemann geometrizable effects in the gravitational one-body problem. (A11). 488715
- virial theorem**
Virial theorem in general relativity. Consequences for stability of spherical symmetry. (A11). 463926
- yang-mills theory**
de Sitter gauge invariance and the geometry of the Einstein-Cartan theory. (A11). 488727
- GENERATOR-COORDINATE METHOD:**
Molecular spectra and the generator coordinate method. (A12). 464031
- GENERATORS (AEROSOL):**
See AEROSOL GENERATORS
- GENERATORS (ELECTRIC):**
See ELECTRIC GENERATORS
- GENERATORS (PULSE):**
See PULSE GENERATORS
- GENERATORS (RADIOISOTOPE):**
See RADIOISOTOPE GENERATORS
- GENERATORS (STEAM):**
See STEAM GENERATORS
- GENES:**
- biological radiation effects**
Identification of the *ftsA* gene product. (C12; uv radiation, *Escherichia coli*). 479797
- cloning**
Cloning and expression of the yeast galactokinase gene in an *Escherichia coli* plasmid. (C45). 479999
- histones**
The histone genes in HeLa cells are on individual transcriptional units. (C11). [Data] 481983
- GENETIC EFFECTS:**
See also GENETIC RADIATION EFFECTS
- risk analysis**
Offspring of patients treated for cancer in childhood. (C15). 487260
- GENETIC RADIATION EFFECTS:**
Features of post-traumatic bone and nerve tissue regeneration in the progeny of females exposed to various radiation doses. (C14). 463124
Features of postnatal lung development in rabbits irradiated during pre-embryogenesis. (C14). 463117
Genetic radiation effects. (C15). 473025
Relative problems of assessing the genetic hazards of radiation and chemicals. (C15). 484547
- age dependence**
Radiogenetic effect of gamma irradiation under different ontogenetic states of sweet pepper. (C13). 472937
- biosynthesis**
The influence of fractionated irradiation on the incorporation rate of a radioactive DNA-precursor. (C14). 461036
- bone marrow cells**
Recovery processes in the elementary cells of the bone marrow after radiation exposure. (C11, C15). 460965
- capsicum**
Radiogenetic effect of gamma irradiation under different ontogenetic states of sweet pepper. (C13). 472937
- comparative evaluations**
Genetic effects under combined irradiation conditions. (C14, C21). 465973
- connective tissue**
Genetic radiosensitivity in rats. Translocation and dominant lethal yields following acute X-ray exposure. (C14). 463112
- cytological techniques**
Recovery and cytoherantological aspects of human connective tissue cells after X-ray and neutron exposure. (C11, C45). 461003
- dna**
Methods of demonstrating cytogenetic radiation damage to aqueous organisms in vivo or in systems of tissue cultures. (C14). 484540
- dna**
DNA repair after radiation exposure. (C11, C15). 460948
The influence of fractionated irradiation on the incorporation rate of a radioactive DNA-precursor. (C14). 461036
- dose-response relationships**
Dose comparisons in the effects of radiation and of chemical pollutants. (C10). 465865
- escherichia coli**
Genetic organization of the *E. coli* chromosome around the structural gene for initiation factor IF3 (infC). (C12). 461023
- fishes**
Cytogenetic methods for the detection of radiation-induced chromosome damage in aquatic organisms. (C14). 484517
- gene recombination**
Genetic study of bacterial chromosome damage affecting recombination after exposure to radiations with varying LET. (C14). 466128
- mice**
The process of radiation-induced mutation in mouse male premeiotic cells. (C14). 463173
- neurospora**
Analysis of lethal events induced by ultraviolet in a heterokaryon of neurospora. (C13). 469623
- nicotiana**
Interspecific transfer of cytoplasmic male sterility by fusion between protoplasts of normal *Nicotiana sylvestris* and X-ray irradiated protoplasts of male-sterile *N. tabacum*. (C11). 469605
- pions minus**
DNA breaks in V79 cells after irradiation with negative pions and 250 kVsub(p) X-rays. (C11, D15). 469604
- radiation protection**
The control of the genetic hazards of radiation. (C53). 484683
- radioprotective substances**
Chemical protection of mammalian germ cells from mutagenic effects of radiation. (C14). 466075
- rats**
Dose-response of reciprocal translocation yields after acute gamma irradiation in rats. (C14). 466087
- response modifying factors**
"Oxygen effect" in synchrotron radiation. (C13). 463082
- saccharomyces cerevisiae**
The DNA repair capability of *cdc9*, the *saccharomyces cerevisiae* mutant defective in DNA ligase. (C12). 461016
- spermatogonia**
Genetic radiosensitivity in mice. I. Testis morphology and genetic effects after chronic gamma irradiation. (C14). 463188
- strontium 90**
Genetic effects of beta-radiation exposure in vegetating barley plants. (C13). 465959
- temporal dose distributions**
Dose-rate effects for radiation-induced germ-cell chromosomal aberrations in mice. (C14). 463111
- tritium oxides**
Induction of specific-locus mutations in the mouse by tritiated water. (C21). 491043
- ultraviolet radiation**
Chromosome damage induced by long wave ultraviolet light in Chinese hamster cells enhanced by 8-methoxypsoralen. (C11). 460985
- GENETICALLY SIGNIFICANT DOSE:**
- federal republic of germany**
Radiotherapy of benign diseases in West Berlin. (C55, C63). [Data] 480195
- natural radioactivity**
The radiation exposure from outside in the Federal Republic of Germany through natural radioactive materials in the open and in houses. (C55). 491233
- GENITALS (FEMALE):**
See FEMALE GENITALS
- GENITALS (MALE):**
See MALE GENITALS
- GENKAI-1 REACTOR:**
- feedwater**
Feed and discharge water treatment for thermal and nuclear power plants. (E32). 477251
- GENKAI-2 REACTOR:**
- reactor licensing**
Alteration of reactor installation (unit 2) in Genkai Nuclear Power Station of Kyushu Electric Power Co., Inc. (C52). 482199
- GENOTYPE:**
- biological effects**
Effect of host *lex*, *recA*, *recF*, and *uvrD* genotypes on the ultraviolet light-protecting and related properties of plasmid R46

- in *Escherichia coli*. (C12). [Data] 472936
- GENTILLY REACTOR:**
- reactor control systems**
- Uninterruptible power supply for the Gentilly Nuclear Power Station. (E34). 477267
- steam lines**
- Acoustic analysis of hydrodynamic oscillations in the Gentilly-1 steam mains. (E34). 461739
- GENTILLY-1 REACTOR:**
- See *GENTILLY REACTOR*
- GENTILLY-2 REACTOR:**
- reactor control systems**
- Uninterruptible power supply for the Gentilly Nuclear Power Station. (E34). 477267
- GEOCHEMICAL SURVEYS:**
- National Uranium Resource Evaluation Program. Hydrogeochemical and stream sediment reconnaissance basic data for Presidio NTMS Quadrangle, Texas. (B31). 460829
- Some results of NURE uranium geochemical studies. (B31). 465788
- quality control**
- Multilaboratory analytical quality control for the hydrogeochemical and stream sediment reconnaissance. Quality control report for April 1979. (B31). 487070
- Multilaboratory analytical quality control for the hydrogeochemical and stream sediment reconnaissance. (B31). 460840
- sediments**
- Uranium reconnaissance over 160,000 miles² of Alaska's tundra and rugged mountains. (B31). 460848
- surface waters**
- Uranium reconnaissance over 160,000 miles² of Alaska's tundra and rugged mountains. (B31). 460848
- GEOCHEMISTRY:**
- element abundance**
- Proton induced X-ray emission (PIXE) - A new tool in geochemistry. (B11, B31). 475891
- hydrocarbons**
- Isotope-geochemical exploration for hydrocarbons. (B31). 469484
- natural uranium**
- Study of weathering velocity of rocks with uranium as a natural tracer. Application to two drainage basins of the north-east of Brazil. (B31, B32). 490766
- petroleum**
- Application of isotope geochemistry for the characterisation of petroleum from the Molasse Basin. (B31). 469493
- radionuclide migration**
- The geochemical aspect for the evaluations of radioelements transfers in subterranean porous media. (B31). [Data] 494210
- sediments**
- A transgression and regression model for the Luxemburg Trias-Lias Region on the basis of organic-geochemical, coal petrological and isotope-geochemical data. (B31). 469488
- tracer techniques**
- Study of weathering velocity of rocks with uranium as a natural tracer. Application to two drainage basins of the north-east of Brazil. (B31, B32). 490766
- uranium**
- Uranium geochemistry and its relationship to uranium exploration. (B31). [Data] 469497
- uranium ores**
- Uranium geochemistry and its relationship to uranium exploration. (B31). [Data] 469497
- GEOCHRONOLOGY:**
- See *AGE ESTIMATION*
- GEOCORONA:**
- ASTRO-6: helium resonance radiation observations with a black brant IVb rocket. (A15). 483515
- GEODESICS:**
- (Lines along which the distance between two points reaches an extremum.)
- Explicit solution of the classical generalized Toda models. (A11). 467103
- Geodesic structure. (A11). 463875
- GEODESY:**
- Geodesy and astrometry by transatlantic long base line interferometry. (A15). 467777
- Very long baseline interferometry applied to polar motion, relativity, and geodesy. Ph.D. thesis. (A15). 467865
- GEOLOGIC DEPOSITS:**
- See also *ALLUVIAL DEPOSITS; RANGER DEPOSIT; SALT DEPOSITS*
- age estimation**
- Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504
- chemical composition**
- Importance of alteration of volcanic material in the sediments of Deep Sea Drilling Site 323: chemistry, ¹⁸O/¹⁶O and ⁸⁷Sr/⁸⁶Sr. (B31). [Data] 462966
- energy sources**
- Science of mineral deposits and economics of energy. (F11, B31, F12). 466911
- heating**
- Method and apparatus for nuclear heating of oil-bearing formations. (E50; Patent). 495178
- isotope dating**
- ¹⁴C-ages and pollen analysis of the Quaternary deposits in the Obama Plain, Fukui Prefecture. (B31). 469530
- isotope ratio**
- Importance of alteration of volcanic material in the sediments of Deep Sea Drilling Site 323: chemistry, ¹⁸O/¹⁶O and ⁸⁷Sr/⁸⁶Sr. (B31). [Data] 462966
- neutron activation analysis**
- Neutron activation analysis of gold, silver, tungsten and antimony at the scheelite deposit of Felbertal (Austria) and their geological-genetical interpretation. (B11). 490287
- water use**
- Water use alternatives for Navajo energy production. (C50, C52). [Data] 494382
- sedimentary rocks**
- Uranium - sedimentary deposit mining. (B31). 490796
- uranium ores**
- Australian uranium reserves: their influence on world energy crisis. (B31, F11). 476433
- Australian uranium reserves. (B31). 476434
- Uranium in tertiary stream channels, Lake Frome area, South Australia. (B31). 476408
- GEOLOGIC FAULTS:**
- gamma radiation**
- A γ-ray survey along Hanaore fault. (B31). 481935
- On the γ-ray measurement around the Yamasaki fault. (B31). 481942
- GEOLOGIC FISSURES:**
- See *GEOLOGIC STRUCTURES*
- GEOLOGIC STRATA:**
- hydrology**
- Hydrologic testing in Borehole DC-2. (B31, E52). 472835
- GEOLOGIC STRUCTURES:**
- See also *GEOLOGIC FAULTS; GEOLOGIC STRATA*
- age estimation**
- Dating and correlation of calcretes and other pedocretes. (B11). 481638
- configuration**
- Gravity inversion code. (B31; SEARCH, TREND, INVERT, AVERAGE, for CDC computers). 476410
- ground motion**
- Estimation on three dimensional earthquake ground motions for aseismic design input for nuclear power plants, (2). (C52). [Data] 491157
- permeability**
- Approach to the fracture hydrology at Stripa: preliminary results. (B31, E52). 487078
- Observations of a potential size-effect in experimental determination of the hydraulic properties of fractures. (B31). 479656
- GEOLOGIC SURVEYS:**
- See also *GEOCHEMICAL SURVEYS; GEOPHYSICAL SURVEYS; MAGNETIC SURVEYS; RADIOMETRIC SURVEYS; SEISMIC SURVEYS*
- GEOLOGY:**
- age estimation**
- A 2.9 b.y. event in the Rhodesian archaean. (B31). 484346
- petrology**
- A 2.9 b.y. event in the Rhodesian archaean. (B31). 484346
- sweden**
- The bedrock and the soil types in the Finnsjöarea, Sweden. (E52). 461933
- GEOMAGNETIC EQUATOR:**
- cyclotron instability**
- Interaction of electrostatic waves with warm electrons at the geomagnetic equator. (B33). 490854
- electron cyclotron-resonance**
- Interaction of electrostatic waves with warm electrons at the geomagnetic equator. (B33). 490854
- GEOMAGNETIC FIELD:**
- alfven waves**
- On the theory of the generation of auroral radiation. (B33). 484398
- data**
- Solar-geophysical data number 407, Jyul 1978, Part I. (Prompt reports). data for June 1978, May 1978. (A15, B33). 464546
- fluctuations**
- Geomagnetic pulsation signals and hourly distributions of IMF orientation. (B33). 490855
- hot plasma**
- Method of locating the Pc 1 source and hot plasma parameters in the generation region. (B33, A14). 469554
- kinetics**
- Source of the earth's magnetic field. (B31). 472803
- magnetic bays**
- The use of ground magnetograms to time the onset of magnetospheric substorms. (B33). 481963
- origin**
- Source of the earth's magnetic field. (B31). 472803
- particle tracks**
- Nonlinear bounce resonant interaction between Alfven waves and geomagnetically trapped particles. (B33). 472881
- pulsations**
- A catalog of low-frequency oscillations of the earth's magnetic field as observed at SMS-1 during November 1974 - March 1975. Data report. (B33). 479713
- IPDP source regions and resonant proton energies. (B33). [Data] 463016
- Method of locating the Pc 1 source and hot plasma parameters in the generation region. (B33, A14). 469554
- On the quiet-time Pc 5 pulsation events (spacequakes). (B33, A15). [Data] 469556
- Pi 2 micropulsations as indicators of substorm onsets and intensifications. (B33). 472889
- solar flares**
- Solar activity effects on cosmic ray intensity and geomagnetic field variation. (A15, B33). 460126
- solar wind**
- Dependence of geomagnetic activity on solar wind parameters. (B33). 476489

- sunspots**
Solar control of low latitude quiet-day magnetic field. (B33). 494228
- tables**
Solar - geophysical data number 406, June 1978. Part II. (Comprehensive reports). Data for December 1977 - november 1977 and miscellanea. (A15, B33). 475235
- time dependence**
Geomagnetic variation during the late Pleistocene period and changes in the radiocarbon time scale. (B31). [Data] 476404
- topology**
Earth's magnetic field at large radial distances as observed by Hawkeye 1. (B33). [Data] 479682
- variations**
Solar activity effects on cosmic ray intensity and geomagnetic field variation. (A15, B33). 460126
- GEOMAGNETIC STORMS:**
See *MAGNETIC STORMS*
- GEOMETRY:**
solitons
Solitons and geometry. (A11). 477647
- GEOPHYSICAL SURVEYS:**
See also *MAGNETIC SURVEYS*
cements
Connections between borehole geophysical parameters of the quality of cement raw materials. (D22, B31). 473600
- natural radioactivity**
Connections between borehole geophysical parameters of the quality of cement raw materials. (D22, B31). 473600
- GEOPHYSICS:**
cosmology
Cosmology and geophysics. (A15). 467963
- reviews**
Earth Sciences Division, collected abstracts, 1978. (B31). 476464
- GEORGIA:**
geochemical surveys
Athens 1° x 2° NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
- Athens, Charlotte, Greenville, and Spartanburg NTMS 1° x 2° quadrangle areas. Supplemental data release. (B31). 487076
- Augusta 1° x 2° NTMS area Georgia and South Carolina. (B31). 476426
- GEO THERMAL ENERGY:**
Energy sources 78/79. (B31). 469472
- steam**
Determination of characteristics of steam reservoirs by radon-222 measurements in geothermal fluids. (B31). 484339
- temperature measurement**
Isotopic geothermometers in geothermal areas. A comparative experimental study in Larderella, Italy. (B31). [Data] 484356
- GEO THERMAL POWER PLANTS:**
chemical effluents
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- environment**
Fuel cycles for electric power generation. (C22, C50). 487317
- fuel cycle**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- Fuel cycles for electric power generation. (C22, C50). 487317
- scaling**
Calculation of chemical equilibrium between aqueous solution and minerals: the EQ3/6 software package. (E52, B31; In FORTRAN extended 4.6 for CDC6600 and 7600). 474294
- thermal effluents**
Comprehensive standards: the power generation case. (C52, A14, B32). 480128
- GERM CELLS:**
See also *OOCYTES; POLLEN; SPERMATOCYTES; SPERMATOGENIA; SPERMATOZOA*
biological radiation effects
Interspecific comparison of the effects of continuous ionizing radiation on the primitive mammalian stem germ cell. (C11; Mice, rats, guinea pigs, gamma radiation). 460964
- mutagenesis**
Unscheduled DNA synthesis (DNA repair) in the germ cells of male mice: its role in the study of mammalian mutagenesis. (C14; X radiation). 494303
- mutations**
Different effects of dose rate on radiation-induced mutation frequency in various germ-cell stages of the mouse, and their implications for the analysis of tumorigenesis. (C14). 487227
- oocytes**
Vulnerability of female germ cells in developing mice and monkeys to tritium, gamma rays, and polycyclic aromatic hydrocarbons. (C11; X radiation). 460962
- GERMAN DEMOCRATIC REPUBLIC:**
hydrology
Regional and temporal variations of deuterium in the precipitation and atmospheric moisture of Central Europe. (B32). [Data] 460888
- GERMAN DR ORGANIZATIONS:**
See also *ZFK ROSSENDORF*
- GERMAN FR ORGANIZATIONS:**
See also *IPP GARCHING; KERNFORSCHUNGSZENTRUM KARLSRUH*
coordinated research programs
1979 programme budget of the Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt. (F61). 482961
- reactor safety**
Change in the publication of the formation of a Kerntechnischer Ausschuss (Nuclear Engineering Committee). (F61, C52). 482965
- research programs**
Annual report 1977. (F62). 471195
- GKSS 1978 annual report. (E22, C52). 491738
- work**
Physikalisch-Technische Bundesanstalt and environmental protection. (F61, C52, C55). 482963
- GERMANATES:**
(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
gadolinium ions
Spectral diffusion in coherent effects of gadolinium in $Pb_3Ge_2O_{11}$, SrF_2 , β - PbF_2 , BaF_2 crystals. (A13). 467402
- GERMANES:**
See *GERMANIUM HYDRIDES*
- GERMANIUM:**
activation analysis
Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- adsorption**
Heats of chemisorption of O_2 , H_2 , CO , CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- carrier mobility**
Discovery of the immobility of electron-hole drops in Ge at low excitation. (B22). [Data] 465673
- combustion**
Combustion of niobium-aluminum, niobium-germanium systems. (B12). 486633
- crystal defects**
The effect of neutron irradiation on impurity precipitation from supersaturated solid solutions in Si and Ge. (B25). 494156
- Evidence of the impurity ionization mechanism of defect formation under "superthreshold" irradiation of germanium. (A13). 492616
- Fast and slow quenching defects in germanium. (E41, B24; In hydrogen atmospheres at 430 °C). 466794
- Irradiation-energy dependence of proton bombardment damage in germanium. (B25). 494097
- Study of the peculiarities of the annealing of radiative defects in germanium doped with antimony. (A13). 492710
- crystal growth**
Regrowth of Si and Ge under laser irradiation. (A13). 492582
- crystal lattices**
Computer simulation of deflection effects for relativistic charged particles in a curved crystal. (A13). 489061
- Determination of oxygen location in germanium lattice at high doses of implantation. (A13). 485611
- crystal structure**
High-resolution EPR and piezospectroscopy studies of the lithium-oxygen donor in germanium. (B24). 460798
- Hydrogen in germanium. (B24). 460797
- cyclotron resonance**
Magnetoplasma resonance of electron-hole drops in germanium. (A13). 483270
- diffusion**
Defect-formation in Si and Ge in conditions of radiation-enhanced diffusion. (A13). 492644
- Phosphorus diffusion in germanium accelerated by radiation. (B25). 494168
- dislocations**
Study on dislocation structure of proton-irradiated germanium monocrystals. (A13). 492718
- electric conductivity**
The electrical properties of Ge films prepared by DC sputtering. (A13). [Data] 489070
- electron spin resonance**
High-resolution EPR and piezospectroscopy studies of the lithium-oxygen donor in germanium. (B24). 460798
- electrons**
Determination of partial and total scattering cross-sections for high energy electrons in the range 1.2-3 MeV. (A32). 483719
- energy levels**
Energy levels in electron irradiated n-type germanium. (A13). [Data] 492676
- excitons**
Discovery of the immobility of electron-hole drops in Ge at low excitation. (B22). [Data] 465673
- fission products**
Evaluated neutron cross sections and resonance integrals of the fission products from $Z=32-37$. (A33). [Data] 493274
- fluorescence**
Calculation of x-ray fluorescence cross sections for K and L shells. (A12; Cross sections). 467240
- frenkel defects**
On the "threshold" energy of the Frenkel-defect formation by fast particles. (A13). 492706
- Radiation-induced damage profile in compensated p-germanium under fast electron irradiation. (A13). 464193
- Simulating atom-atom collision cascades in silicon and germanium. (A13). 492636
- hall effect**
Peculiarities of radiation-induced damages in p-germanium doped with silver. (A13). 464194
- hydrogen**
Muonium, hydrogen, and such in Si and Ge. (A13). 474861
- interstitials**
A review of new developments on defects in germanium. (B25). 494162

- ion collisions**
K-shell ionization of elements $_{29}\text{Cu}$ to $_{37}\text{Rb}$ for 0.4 - 3.8-MeV/amu $^{10}_2\text{B}$ -ion bombardment. (A12). 474624
- ion implantation**
Germanium structure damages during doping with oxygen ions of large dose. (A13). 492654
Ion implantation induced defects and epitaxial regrowth by thermal and laser annealing. (B25, A13). 494122
Ion implantation and depletion in germanium at low temperatures. (B25). 472745
Recent advances in common semiconductor materials. (B21, E41). 460664
- muonium**
Anomalous muonium in germanium. (A13). 474769
Muonium, hydrogen, and such in Si and Ge. (A13). 474861
- optical properties**
Photoacoustic characterization of cw argon-ion laser irradiation of Ge. (B22). 490610
Temperature-dependent Sellmeier coefficients and nonlinear optics average power limit for germanium. (B20). [Data] 465528
- oxygen additions**
Determination of oxygen location in germanium lattice at high doses of implantation. (A13). 485611
- photoconductivity**
Ge : Ga photoconductors in low infrared backgrounds. (B24). [Data] 465706
- photoelectron spectroscopy**
High-resolution EPR and piezospectroscopy studies of the lithium-oxygen donor in germanium. (B24). 460798
- photon collisions**
Calculation of x-ray fluorescence cross sections for K and L shells. (A12; Cross sections). 467240
- physical radiation effects**
Defect-formation in Si and Ge in conditions of radiation-enhanced diffusion. (A13). 492644
The effect of neutron irradiation on impurity precipitation from supersaturated solid solutions in Si and Ge. (B25). 494156
Germanium structure damages during doping with oxygen ions of large dose. (A13). 492654
Interaction of primary radiation-induced defects with golden atoms in p-type Ge(Au). (A13). 474766
Ion implantation induced defects and epitaxial regrowth by thermal and laser annealing. (B25, A13). 494122
Irradiation-energy dependence of proton bombardment damage in germanium. (B25). 494097
Peculiarities of radiation-induced damages in p-germanium doped with silver. (A13). 464194
Phosphorus diffusion in germanium accelerated by radiation. (B25). 494168
Positron annihilation in neutron-irradiated germanium. (A13). 492575
Regrowth of Si and Ge under laser irradiation. (A13). 492582
Some specific features of radiation-induced defect-formation in germanium doped with copper. (A13). 492578
Study on the stage of annealing in the range of 300K in germanium irradiated with fast electrons at 77K. (A13). 474761
- proton channelling**
Computer simulation of deflection effects for relativistic charged particles in a curved crystal. (A13). 489061
- proton reactions**
Compound nuclear lifetimes in the presence of direct processes. (A34; Cross sections, time dependence, analog resonance, excitation functions, finite lifetime). 460341
- radiation effects**
Recovery processes of Si(111) and Ge(111) surfaces damaged by argon ion bombardment. (A13). 462199
- refraction**
Temperature-dependent Sellmeier coefficients and nonlinear optics average power limit for germanium. (B20). [Data] 465528
- solid-state plasma**
Magnetoplasma resonance of electron-hole drops in germanium. (A13). 483270
- stopping power**
On the extension of possibilities of the method for determining stopping powers from backscattering spectra in the case of multicharged ions. (A32; nitrogen ions). 464942
- synchrotron radiation**
Determination of spectral curves of reflection of Ge and Si monochromators. (E42). 495155
- vacancies**
Lattice defects in quenched p-type Ge induced by gamma irradiation at room temperature. (B25). 494137
Light-sensitive defects produced by electron irradiation in n-type and undoped germanium. (B25). 494128
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
- GERMANIUM ALLOYS:**
- alternating current**
Temperature dependence of ac losses in CVD-prepared Nb_3Ge . (B22, A17). 469304
- chemical bonds**
Electronic properties of Nb_3Ge and Nb_3Al from self-consistent pseudopotentials. II. Bonding, electronic charge distributions, and structural transformation. (B22). 481817
- chemical vapor deposition**
Study of superconducting A15 compounds of the Nb-Ge-Si system prepared by CVD. (B21). 472610
Superconducting A15 compounds of the Nb-Ge, Nb-Si and Nb-Ge-Si systems prepared by chemical vapor deposition. (A17, B22). 489704
- Superconductivity of A15 compounds in the system Nb-Ge-Sn synthesized by chemical vapor deposition. (B22, A17). 472635
- critical current**
Comparison of projected critical currents in PbMo_6S_8 and Nb_3Ge . (B22). [Data] 462852
Structure dependent anisotropy of superconducting critical currents in sputtered and evaporated Nb_3Ge films. (B22, A17). 472628
Superconducting properties of liquid-quenched $\text{Nb}_3(\text{Al},\text{Si})$ and $\text{Nb}_3(\text{Al},\text{Co})$. (B22). 479371
Temperature dependence of ac losses in CVD-prepared Nb_3Ge . (B22, A17). 469304
- critical field**
Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089
Critical field measurements of In-Ge superconducting alloys. (A13). 464160
- crystal-phase transformations**
Electronic properties of Nb_3Ge and Nb_3Al from self-consistent pseudopotentials. II. Bonding, electronic charge distributions, and structural transformation. (B22). 481817
- current density**
Comparison of projected critical currents in PbMo_6S_8 and Nb_3Ge . (B22). [Data] 462852
- electronic structure**
Atomic scale structure of amorphous sputtered Nb_3Ge and Nb_3Si . (A13). 477859
- fabrication**
Fabrication technique may advance uses of superconductors. (A17, B22). 475458
Fabrication technique may advance uses of superconductors. (A17, B22). 485969
 Nb_3Ge superconductive films grown with air. (B21, A17; Patent). 465558
 Nb_3Ge superconductive films grown with nitrogen. (B21, A17; Patent). 465557
- fermi level**
Electronic properties of Nb_3Ge and Nb_3Al from self-consistent pseudopotentials. I. Band structure and density of states. (B22). 481837
- hall effect**
Optical and Hall effect studies of niobium and transition metal compounds of the A-15 structure. (B22, A17). [Data] 479431
- intermetallic compounds**
Structure and order parameter of an A15-type niobium germanium single crystal. (B22). 484244
Structure and temperature of superconductive transition of the V^3 (Fe, Ge) alloys. (B22). 476346
- internal friction**
Thermally-activated internal friction peaks in amorphous films of Nb_3Ge and Nb_3Si . (B22). 479369
- magnetic flux**
Scaling laws for pinning forces in inhomogeneous superconductors. (B22). 469095
- optical properties**
Optical and Hall effect studies of niobium and transition metal compounds of the A-15 structure. (B22, A17). [Data] 479431
- phase diagrams**
The phase diagram of the niobium-germanium system. (B22). 472649
- superconductivity**
Effects of stoichiometry and neutron irradiation in superconducting A-15 compounds. (A17, B22, B25). 478387
Electronic properties of Nb_3Ge and Nb_3Al from self-consistent pseudopotentials. I. Band structure and density of states. (B22). 481837
Fabrication technique may advance uses of superconductors. (A17, B22). 475458
Fabrication technique may advance uses of superconductors. (A17, B22). 485969
Properties of films of high-temperature superconducting Nb_3Ge alloy prepared by cathode sputtering. (B22). 493956
Superconductivity at 23 K in A15 $\text{Nb}_3(\text{Ge},\text{Si})$ prepared by CVD. (B22, A17). 486910
Superconductivity of single-crystal NbGe_2 . (B22, A17). 472672
- superconductors**
Role of oxygen while forming Nb_3Ge film structure with high critical temperatures. (A17). 478381
- transition temperature**
Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089
Preparation of Nb_3Ge films by chemical transport reaction and their critical properties. (B22, A17). 479434
Superconducting properties of liquid-quenched $\text{Nb}_3(\text{Al},\text{Si})$ and $\text{Nb}_3(\text{Al},\text{Co})$. (B22). 479371
Superconducting properties of A15 compounds derived from band-structure results. (B22, A17). [Data] 465607
Superconductivity of A15 compounds in the system Nb-Ge-Sn synthesized by chemical vapor deposition. (B22, A17). 472635
Superconductivity of ternary alloys with A15-structure in as sput cooled conditions. (B22). 479428
- type-II superconductors**
Superconducting A15 compounds of the Nb-Ge, Nb-Si and Nb-Ge-Si systems prepared by chemical vapor deposition. (A17, B22). 489704
- GERMANIUM COMPOUNDS:**
See also GERMANATES; GERMANIUM HYDRIDES; GERMANIUM OXIDES; GERMANIUM PHOSPHIDES; GERMANIUM SELENIDES; GERMANIUM SULFIDES; GERMANIUM TELLURIDES

- chemical radiation effects**
Electron paramagnetic resonance spectra of γ -irradiated germanium, tin, and lead tetraacetates. (B14). [Data] 486755
- electronic structure**
Self-consistent augmented-plane-wave electronic-structure calculations for the A15 compounds V_3X and Nb_3X , $X = Al, Ga, Si, Ge$, and Sn . (B22, A17). 469209
- superconductivity**
Self-consistent augmented-plane-wave electronic-structure calculations for the A15 compounds V_3X and Nb_3X , $X = Al, Ga, Si, Ge$, and Sn . (B22, A17). 469209
- thermodynamic properties**
Silicide thermoelectric materials and their application. (B24). 476376
- GERMANIUM DIODES:**
- efficiency**
Theoretical efficiencies and spectral calculations for the picture-detector element in a germanium γ -ray camera. (E41, B22). 461859
- specifications**
Theoretical efficiencies and spectral calculations for the picture-detector element in a germanium γ -ray camera. (E41, B22). 461859
- GERMANIUM HYDRIDES:**
- absorption spectra**
Transition moment for v_3 of $^{74}GeH_4$. (B11, B12). 486505
- chemical reaction kinetics**
Rate constants for the reactions of atomic chlorine with Group 4 and Group 5 hydrides. (B12). 472460
- dipole moments**
Transition moment for v_3 of $^{74}GeH_4$. (B11, B12). 486505
- GERMANIUM IONS:**
- ion implantation**
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
- GERMANIUM ISOTOPEs:**
See also GERMANIUM 67; GERMANIUM 68; GERMANIUM 69; GERMANIUM 70; GERMANIUM 71; GERMANIUM 72; GERMANIUM 73; GERMANIUM 74; GERMANIUM 75; GERMANIUM 76
- neutron reactions**
Intermediate structure of low-energy neutron inelastic scattering cross sections in A approximately equal to 70-80 range. (A33). 486223
- GERMANIUM OXIDES:**
- antiferromagnetism**
Studies of antiferromagnetism in $Dy_2Ge_2O_7$ single crystals. (A13). 464230
- physical radiation effects**
Gamma-ray induced oxygen diffusion in germanium dioxide. (B25). 494113
- vapor pressure**
Mass-spectrometric study of thermodynamic properties of $Na_2O-B_2O_3-GeO_2$ system melts. (B12). 486666
- GERMANIUM PHOSPHIDES:**
- physical radiation effects**
The electrical and optical properties of 2.0 MeV electron-irradiated $ZnGeP_2$. (B25). 462935
- GERMANIUM SELENIDES:**
- stopping power**
Properties of Se-Ge inorganic photoresist as an ion-implantation mask. (A13). 492716
- GERMANIUM SULFIDES:**
- chemical preparation**
Synthesis and X-ray investigation of europium ortho-thiogerminate. (B12). 493703
- GERMANIUM TELLURIDES:**
- chemical reactions**
Analysis of molecular interaction in the PbTe-GeTe quasi-binary system on the base of experimental study of viscosity and electric conductivity. (B12). 468821
- cobalt alloys**
Interaction of Co with GeTe. (B22). 484153
- crystal-phase transformations**
Interpretation of polymorphous transformations in GeTe. (B22). 465589
- MnTe effect on temperature characteristics of phase transition of GeTe. (B22). 465585
- On the γ -phase of GeTe. (B22). 486935
- electric conductivity**
Effect of condensation and annealing conditions on electric properties and structure of GeTe films. (B22). 465567
- thermoelectricity**
Anisotropy of γ -GeTe electric properties. (A13). 474813
- x-ray spectra**
X-ray studies of amorphous and crystalline germanium telluride. (A13). 477918
- GERMANIUM 67:**
- e3-transitions**
Effective coupling constants for M1, M2 and E3 transitions in f-p shell nuclei. (A34). [Data] 475834
- m1-transitions**
Effective coupling constants for M1, M2 and E3 transitions in f-p shell nuclei. (A34). [Data] 475834
- nuclear decay**
Decay scheme of excited states in ^{67}Ge . (A34). [Data] 462624
- GERMANIUM 68:**
- energy levels**
Experimental and theoretical study of the ^{68}Ge , ^{70}Ge , ^{72}Ge , ^{74}Ge transitional nuclei. (A34). 472224
- energy-level transitions**
In-beam gamma-ray spectroscopy studies in ^{68}Ge and ^{72}Ge . (A34; J, π lifetime). 468460
- GERMANIUM 69:**
- energy levels**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- excited states**
Lifetimes and spin-parity assignments of excited states in ^{69}Ge populated in the $^{68}Zn(\alpha,ny)$ reaction. (A34). 483820
- high spin states**
High-spin states of negative parity in ^{69}Ge . (A34). 475865
- GERMANIUM 70:**
- energy levels**
Angular correlation measurements over the intermediate structure in ^{70}As . (A34). 486468
- Experimental and theoretical study of the ^{68}Ge , ^{70}Ge , ^{72}Ge , ^{74}Ge transitional nuclei. (A34). 472224
- proton reactions**
Isobaric analogue resonances in $^{74}HfAs$ through proton elastic scattering on ^{70}Ge . (A34). 486447
- GERMANIUM 70 TARGET:**
- beryllium 9 reactions**
Evidence for a positive parity decoupled band in ^{70}Rb . (A34). 490139
- carbon 12 reactions**
Evidence for a positive parity decoupled band in ^{70}Rb . (A34). 490139
- deuteron reactions**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- proton reactions**
Angular correlation measurements over the intermediate structure in ^{71}As . (A34). 486468
- Application of the crystal blocking technique to the study of the highly excited nuclear continuum. (A34). 475810
- Thick target yields and analytical sensitivities for reactions induced with 12-MeV-protons on Ti, Fe, Zn, Ge, Zr, Nb, Pd, Ta, and W. (A34, B11). [Data] 481575
- triton reactions**
/ \sup 72,74,76/Ge by the (t,p) reaction. (A34). 478742
- ^{72}Ge from the $^{70}Ge(t,p)$ reaction. (A34). 486427
- GERMANIUM 71:**
- electron capture**
Chemical effect on a probability of electron capture by ^{71}Ge nucleus. (A34). 493433
- energy levels**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- GERMANIUM 72:**
- energy levels**
/ \sup 72,74,76/Ge by the (t,p) reaction. (A34). 478742
- ^{72}Ge from the $^{70}Ge(t,p)$ reaction. (A34). 486427
- Experimental and theoretical study of the ^{68}Ge , ^{70}Ge , ^{72}Ge , ^{74}Ge transitional nuclei. (A34). 472224
- Negative parity states of ^{71}Ge . (A33). 478661
- energy-level transitions**
In-beam gamma-ray spectroscopy studies in ^{68}Ge and ^{72}Ge . (A34; J, π lifetime). 468460
- GERMANIUM 72 TARGET:**
- beryllium 9 reactions**
Evidence for a positive parity decoupled band in ^{70}Rb . (A34). 490139
- boron 10 reactions**
Evidence for a positive parity decoupled band in ^{70}Rb . (A34). 490139
- deuteron reactions**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- helium 3 reactions**
Levels in ^{73}As through the $^{72}Ge(^3He,d)$ reaction. (A34). 478763
- proton reactions**
Application of the crystal blocking technique to the study of the highly excited nuclear continuum. (A34). 475810
- rotational states**
Excited rotational bands in ^{72}Ge and ^{74}Ge . (A34). [Data] 465189
- triton reactions**
/ \sup 72,74,76/Ge by the (t,p) reaction. (A34). 478742
- GERMANIUM 73:**
- energy levels**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- GERMANIUM 73 TARGET:**
- beryllium 9 reactions**
Evidence for a positive parity decoupled band in ^{70}Rb . (A34). 490139
- boron 10 reactions**
Evidence for a positive parity decoupled band in ^{70}Rb . (A34). 490139
- GERMANIUM 74:**
- energy levels**
/ \sup 72,74,76/Ge by the (t,p) reaction. (A34). 478742
- Experimental and theoretical study of the ^{68}Ge , ^{70}Ge , ^{72}Ge , ^{74}Ge transitional nuclei. (A34). 472224

- nuclear deformation**
Microscopic study of triaxiality in transition nuclei. (A34). 472252
- GERMANIUM 74 TARGET:**
- deuteron reactions**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- krypton 84 reactions**
Remeasurement of ^{40}Ar and ^{84}Kr excitation functions leading to the same compound nucleus, ^{158}Er . (A34). [Data] 465144
- proton reactions**
Application of the crystal blocking technique to the study of the highly excited nuclear continuum. (A34). 475810
- rotational states**
Excited rotational bands in ^{72}Ge and ^{74}Ge . (A34). [Data] 465189
- triton reactions**
/sup 72,74,76/Ge by the (t,p) reaction. (A34). 478742
- GERMANIUM 75:**
- beta-minus decay**
Decay of the 83 min ^{75}Ge and energy levels and γ -transitions in ^{75}As . (A34). 468445
- energy levels**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- GERMANIUM 76:**
- beta decay**
A Monte-Carlo evaluation of an improved-sensitivity ^{76}Ge double-beta-decay experiment. (E41, A34). 477319
- energy levels**
/sup 72,74,76/Ge by the (t,p) reaction. (A34). 478742
- monte carlo method**
A Monte-Carlo evaluation of an improved-sensitivity ^{76}Ge double-beta-decay experiment. (E41, A34). 477319
- GERMANIUM 76 BEAMS:**
- van de graaff accelerators**
On the production of negative ion beams of rare isotopes for tandem accelerators. (E16). [Data] 491628
- GERMANIUM 76 TARGET:**
- deuteron reactions**
Studies of the odd-A germanium isotopes with the Ge (d,t) and Ge (d,p) reactions. (A34; Differential cross sections, vector analyzing power, 12 and 16 MeV, J, π , transitions). 460324
- GERMANY (DEMOCRATIC REPUBLIC):**
See GERMAN DEMOCRATIC REPUBLIC
- GERMANY, FEDERAL REPUBLIC OF:**
See FEDERAL REPUBLIC OF GERMANY
- GERMINATION:**
- biological radiation effects**
Effect of gamma irradiation on seed germination of Phaseolus mungo. (C13). 461025
- Effect of X-rays on germination of some wild papilionaceous seeds. (C13). 479806
- Neutron radiography: a technique for studying young roots growing in soil. (C13; Effects of irradiation, depth of planting, and seed orientation on growth of root shoots). [Data] 461029
- Studies on the effect of gamma irradiation on the seed germination of Lens esculenta, the Masoor. (C13). 479807
- enzymes**
The effects of gamma irradiation on the production and secretion of enzymes, and on enzyme activities in barley seeds. (C13). [Data] 463093
- GERMS (MICROORGANISMS):**
See MICROORGANISMS
- GERONTINE:**
See SPERMINE
- GETR REACTOR:**
- reactor experimental facilities**
Commercial fuel testing in the GETR (General Electric Test Reactor). (E36). 492030
- GEYSERS:**
See THERMAL SPRINGS
- GIANT CELLS:**
See TUMOR CELLS
- GIANT RESONANCE:**
- Magnetic giant resonances in nuclei. (A34). 465126
- Self-consistent theory of the giant dipole resonance in excited nuclei. (A33; sup(58)Ni, sup(64,66,68,70)Zn, sup(90,92)Zr, sup(208)Pb). 493164
- droplet model**
Electric giant resonance by the droplet model. (A33). 472168
- excitation**
Effective forces and direct excitation of giant resonances by nucleons. (A33; ^{54}Fe , ^{124}Sn , ^{208}Pb). 468280
- e1-transitions**
Electroproduction and decay of giant resonances. (A32). [Data] 462598
- e3-transitions**
Investigation of giant E3 resonances by (N, γ) reactions. (A33). 483795
- Proton excitation of the isovector giant quadrupole resonance in ^{208}Pb . (A33). 483779
- intermediate structure**
On an intermediate structure of giant analog resonances in medium and heavy nuclei. (A33). 462623
- monopoles**
Giant monopole states in the Suzuki model. (A33). 475750
- New formulas for isoscalar giant monopole and quadrupole resonances. (A33). [Data] 472136
- nuclear decay**
Electroproduction and decay of giant resonances. (A32). [Data] 462598
- nuclear quadrupole resonance**
New formulas for isoscalar giant monopole and quadrupole resonances. (A33). [Data] 472136
- particle-hole model**
A dynamical theory of the giant resonances in nuclei. (A33). 464965
- photonuclear reactions**
A combined model for decay of the giant dipole resonance. (A33). 478644
- quadrupoles**
Isoscalar quadrupole excitations in the two-center shell model. (A33). 483778
- reviews**
New giant resonances: an experimental review. (A34; Primarily E2 and E0). [Data] 472231
- New giant resonances: an experimental review. (A34). [Data] 475791
- GIANT RESONANCE MODEL:**
- many-body problem**
Macroscopic theory for dipole states. (A33). 472208
- GIANT STARS:**
See also RED GIANT STARS; SUPERGIANT STARS
- balmer lines**
Unusual Balmer lines in the spectrum of the M-type giant HD 139216. (A15). 475399
- binary stars**
On the nature of SS433. (A15). 492876
- calibration**
Luminosity calibration of late-type stars by statistical parallax using AGK3 proper motions. (A15). 475309
- chemical composition**
Iron abundances in G and K giants from near-infrared spectra. (A15). 475203
- Nitrogen anomaly in 47 Tucanae. (A15). 485913
- Supermetallicity and the strong-lined binary systems. (A15). 485860
- color**
The colors of G and K giant stars. (A15). 475189
- cosmic x-ray sources**
On the nature of SS433. (A15). 492876
- element abundance**
Carbon isotope ratios and iron/hydrogen ratios in K giants. (A15). [Data] 462421
- infrared spectra**
Iron abundances in G and K giants from near-infrared spectra. (A15). 475203
- isotope ratio**
Carbon isotope ratios and iron/hydrogen ratios in K giants. (A15). [Data] 462421
- luminosity**
Luminosity calibration of late-type stars by statistical parallax using AGK3 proper motions. (A15). 475309
- GINZBURG-LANDAU THEORY:**
- critical field**
Ginzburg-Landau theory of the upper critical field in filamentary superconductors. (A17, B22). 481342
- josephson junctions**
Low-voltage dynamical properties of superconducting weak links. (A17). 467988
- order parameters**
Ginsburg-Landau theory of two antagonistic order parameters: magnetism and superconductivity. (A17, A13). 471963
- Time-dependent superconductivity: Relaxation oscillations of the order parameter. (A17). 467994
- time dependence**
Low-voltage dynamical properties of superconducting weak links. (A17). 467988
- vortices**
Multi-vortex solutions of the Ginzburg-Landau equations. (A17, A22). 493027
- Multivortex solutions of the Ginzburg-Landau equations. (A11). 488739
- GKN REACTOR (DODEWAARD):**
See DODEWAARD REACTOR
- GKN-1 REACTOR (NECKAR):**
See NECKAR REACTOR
- GKN-2 REAKTOR (NECKAR):**
See NECKAR-2 REACTOR
- GLACIERS:**
- hydrology**
Models for the runoff from a glaciated catchment area using measurements of environmental isotope contents. (B32). [Data] 462985
- GLANDS:**
See also ADRENAL GLANDS; ENDOCRINE GLANDS; LIVER; MAMMARY GLANDS; PANCREAS; PARATHYROID GLANDS; PITUITARY GLAND; PROSTATE; SALIVARY GLANDS; THYROID
- calcium 45**
Amylase release from rat parotid glands. II. (C21). 461096
- radiotherapy**
The role of the ray therapy in the treatment of tumours of the parotid gland. (C15). 494321
- GLASS:**
- activation analysis**
Determination of indium, copper and nickel in glassmaking materials and NBS standard reference materials by stoichiometric radioactivation analysis. (B11). [Data] 460408
- autoradiography**
Luminescent autoradiography - a method for investigating vitreous and crystalline SiO_2 . (A13). 474714

- bismuth ions**
Energy transfer between Bi^{3+} and Eu^{3+} in germanate glasses using time resolved spectroscopy. (A12). 459716
- boron**
Determination of boron content of glasses by neutron absorption. (D22). 461484
- calcium phosphates**
Anomalous spectral properties of inhomogeneously broadened transitions of Eu^{3+} in $\text{Ca}(\text{PO}_3)_2$ glass. (A12). 459771
- chemical composition**
Development of glass compositions for immobilization of SRP waste. (E51). 466881
- comparative evaluations**
Effect of negative pions on cells plated on glass and plastic surfaces. (C11; Hamsters). 469594
- corrosion**
Investigations to the glass corrosion. (B15). 479325
- crystal growth**
Nucleation and growth studies by small angle neutron scattering and results for a glass ceramic. (A31). [Data] 468236
- crystallization**
Effect of some elements of scandium sub-group on crystallization ability and structure of some glasses of $\text{MnO-Al}_2\text{O}_3\text{-SiO}_2$ system. (B12). 478974
- diffusion**
Actinide diffusion in waste glasses. (A13, B24, E51). 467438
Application of stable isotopes for diffusion measurements in glasses. (B11, B12). 493533
- electric conductivity**
Viscosity and electrical conductivity of glass melts as a function of waste composition. (E51; Effect of iron and aluminum content of viscosity and electrical conductivity). 466882
- europium ions**
Energy transfer between Bi^{3+} and Eu^{3+} in germanate glasses using time resolved spectroscopy. (A12). 459716
- fabrication**
Glass-ceramic composition for hermetic seals. (B23; Patent). 486947
- fluorides**
Fluoride glasses. (A13). [Data] 464215
- infrared spectra**
Investigation of lithium boron silicate glasses by the method of high temperature IR spectroscopy. (B12). 479047
- ion channeling**
Electromigration in ion bombardment. (B25; Helium⁺ and deuterium⁺). 460820
- leaching**
Long-term leach rates of glasses containing actual waste. (E52). 466905
Preliminary mini experiments on leaching of glass. A report of the situation 1979-03-15. (E52, B24). 492252
Single-pass leaching of nuclear melt glass by groundwater, Part I. (E52, E14, C52). 474240
- lithium compounds**
Laser-induced fluorescence line narrowing of Eu^{3+} in lithium borate glass. (A12). 459736
- neodymium ions**
Spectral behaviour of Nd^{3+} doped glasses under narrow-line excitation. (A12). 459742
- neutron activation analysis**
Determination of fluorine in glasses by cyclic activation analysis using a californium-252 neutron source. (B11). [Data] 484010
Neutron activation analysis of trace elements in DGG standard glass I (soda-lime-silica glass). (B11). 468655
- nucleation**
Nucleation and growth studies by small angle neutron scattering and results for a glass ceramic. (A31). [Data] 468236
- optical properties**
Measurement of optical glasses. (B24). 487006
Precipitation processes in implanted materials. (B22, B24). 465577
- permittivity**
Anomalous dielectric susceptibility of glasses at ultralow temperature and its use as a thermometer. (A17). 462504
- physical radiation effects**
Depth distribution of color centers in glass under electron radiation conditions. (B25). 465715
Effects of radiation on TFTR coil materials. (A14, B25). [Data] 475054
Radiation effects on organic insulators for superconducting magnets. Annual progress report for period ending September 30, 1978. (B25, E12). 465727
- proton channeling**
Electromigration in ion bombardment. (B25; Helium⁺ and deuterium⁺). 460820
- radiation effects**
Electron spin resonance of Cd^{2+} centers in irradiated vitreous sodium borates. (A13). 462164
- radioluminescence**
Luminescent autoradiography - a method for investigating vitreous and crystalline SiO_2 . (A13). 474714
- radiolysis**
Glass as a material for the final disposal of fission products. (E52, B23, B13). 488367
- radiosensitivity**
Ionizing radiation effects on technological materials. (B25). 479554
- refractive index**
Fluoride glasses. (A13). [Data] 464215
- scavenging**
Electron scavenging in glasses. (A12). 485524
- self-diffusion**
Method for determining the isotope effect by gamma-ray spectroscopy. (B12). 462713
Oxygen self-diffusion in a potassium strontium silicate glass using proton activation analysis. (B11). 468661
Self-diffusion in glasses. (B11, B12). 493496
- semiconductor materials**
Investigation into glassy semiconductors of the P-Se-Te system using NMR spectroscopy of ^{31}P . (B22, B12). 486865
- shielding**
Adjustable lead glass shielding device for use with a over-the-table x-ray tube. (C15, C60, C54). 469692
Value of conventional eyeglasses for x-ray protection. (C15, C60, C54). 469679
- silver 107**
Paramagnetic centers of atomic silver in quartz glasses. (B25). 476394
- silver 109**
Paramagnetic centers of atomic silver in quartz glasses. (B25). 476394
- surface treatments**
Possibility of tin determination on glass surface by non-destructive neutron activation analysis. (B11). 478810
- thermal expansion**
Thermal expansion and density measurements of molten and solid materials at high temperatures by the gamma attenuation technique. (B22, E42). 490576
- transition temperature**
High pressure Moessbauer study on an amorphous material: Metglas 2826A. (A13). 481125
- trapped electrons**
Wavelength-selective bleaching of the optical spectra of trapped electrons in organic glasses. II. (B24, B25). 487002
- viscosity**
Viscosity and electrical conductivity of glass melts as a function of waste composition. (E51; Effect of iron and aluminum content of viscosity and electrical conductivity). 466882
Viscosity of glasses containing simulated Savannah River Plant waste. (E51). 466880
- GLASS DOSEMETERS:**
See RPL DOSEMETERS
- GLASS SCINTILLATORS:**
luminescence
Energy transfer in terbium-activated silicate glasses. (B25). 494167
Energy transfer in cerium-activated silicate glasses. (B25). 494166
- response functions**
A measurement of the pulse height distribution of a lithium glass scintillator at different neutron energies. (E41). [Data] 463720
- GLAUBER THEORY:**
correlations
Correlations between nucleons in high-energy nuclear collisions. (A33). 468390
- multiple scattering**
Validity of the closure approximation in multiple scattering theory. (A33, A21). 475773
- proton reactions**
Elastic scattering of protons from helium nuclei at the incident proton kinetic energies of 2.68 and 4.89 GeV. (A34; Differential cross sections). 460349
Proton-nucleus elastic scattering at 1 GeV in the Glauber model. (A33). 468267
- GLEEP REACTOR:**
research reactors
GLEEP - a question of priority. (E36). 482808
- GLEEP - a question of priority. (E36).** 482808
- GLOBAL FALLOUT:**
quantitative chemical analysis
Radioactive fallout in air and rain: results to end of 1978. (B33). [Data] 481952
- GLOBIN:**
See also HEMOGLOBIN; METHEMOGLOBIN; MYOGLOBIN
- GLOBULINS:**
See also ANGIOTENSIN; FIBRINOGEN; GLOBULINS-GAMMA; HAPTOGLOBINS; IMMUNOGLOBULINS; THYROGLOBULIN; TRANSFERRIN
- biological effects**
In vitro suppression of spontaneous erythrocyte autoimmune responses with lymphocytes activated with concanavalin A. (C11). 460990
Suppression of leukocyte inhibitory factor (LIF) production and [^3H]thymidine incorporation by concanavalin A-activated mononuclear cells. (C11). 472912
- liver**
Hepatic uptake of desialylated testosterone-oestradiol-binding globulin in the rat. (C21). 463245
- testosterone**
Hepatic uptake of desialylated testosterone-oestradiol-binding globulin in the rat. (C21). 463245
- GLOBULINS-ALPHA:**
See also HAPTOGLOBINS
- GLOBULINS-BETA:**
See also TRANSFERRIN
- GLOBULINS-GAMMA:**
immune reactions
In vitro model for induction of immunologic unresponsiveness to turkey γ -globulin in primed mouse spleen cells. (C11; Gamma radiation). [Data] 476523

- low dose irradiation**
Effect of low x-radiation doses on nonspecific protective systems and gammaglobulin content of chick blood. (C14). 484530
- x radiation**
Serum gamma-globulin behavior in calves after whole-body irradiation. (C14). 466030
- GLOMERULI:**
- biomedical radiography**
Spasm of cortical arteries as a complication to selective nephroangiography. (C61). 480201
- blood flow**
Spasm of cortical arteries as a complication to selective nephroangiography. (C61). 480201
- dogs**
Measurement of glomerular filtration in dogs by ^{51}Cr -EDTA and ^{113}In -DTPA. (C31). 461131
- ultrafiltration**
Measurement of glomerular filtration in dogs by ^{51}Cr -EDTA and ^{113}In -DTPA. (C31). 461131
- GLOSSINA:**
- diet**
The sterile insect technique for control of tsetse flies in Africa. (C42). 466255
- radionuclide administration**
Labelling of the tsetse fly *Glossina palpalis* palpalis by activable elements. (C31). 484600
- sterile insect release**
The sterile insect technique for control of tsetse flies in Africa. (C42). 466255
- sterile male technique**
Progress with the sterile insect technique for *Glossina morsitans* control. (C42, C12). [Data] 484616
- GLOVEBOXES:**
- aerosols**
Activity and size distributions of aerosols in the Laboratory for experimental fuels AEE Winfrith. (C52, B12). 463385
- failures**
Observations on glove-box glove failure. (C52, E15). 476696
- moisture gages**
Calibration of moisture monitors. (C54, E42). 466350
- operation**
Observations on glove-box glove failure. (C52, E15). 476696
- radioactivity**
Monitoring system of the Tritium Research Laboratory, Sandia Laboratories, Livermore, CA. (B33, E41). 476496
- specifications**
Progress report, July 1975 - September 1977. (F41, B11). 474371
- GLOVES:**
- failures**
Observations on glove-box glove failure. (C52, E15). 476696
- GLOW DISCHARGES:**
- beam production**
On the anode instability in a glow discharge. (A14). 462387
- Electrode surface effects in the high voltage glow discharge.** (A12). 459739
- deposition**
Initial etching in an rf butane plasma. (A14). 459850
- electron spectra**
Electron energy distributions in a sputtering discharge. (A13). 471527
- etching**
Initial etching in an rf butane plasma. (A14). 459850
- excited states**
Spectroscopy of atomic processes in plasma. (A14). 467548
- fluorescence spectroscopy**
Spectroscopy of atomic processes in plasma. (A14). 471639
- gas lasers**
Study of the spatial variation of macroscopic quantities in a weakly ionized gas. (A12). 488880
- infrared radiation**
Glow discharge, its sensitivity to infra-red radiation. Observations made during the testing of multiwire proportional chambers. (E41). 480778
- meetings**
Program and abstracts. (A13, E13; Buffalo, New York, October 17-20, 1978). 492695
- sputtering**
Electron energy distributions in a sputtering discharge. (A13). 471527
- GLUCAGON:**
- iodination**
Micro-electrolytic iodination of polypeptide hormones. (B13). 484086
- GLUCOCORTICOIDS:**
See also CORTICOSTERONE; HYDROCORTISONE; PREDNISOLONE; PREDNISON
- biological effects**
Mechanisms of immunosuppression induced in mice by orthoaminoazotoluene and its non-carcinogenic analogue. (C45). 469875
- radiometric analysis**
Radioisotope analysis in vitro in the assessment of glucocorticoid hormone binding with hepatocytes receptors. (C31). 469838
- GLUCOPROTEINS:**
See GLYCOPROTEINS
- GLUCOSE:**
- intestinal absorption**
The uptake in vitro of dyes, monosaccharides and amino acids by the filarial worm *Brugia pahangi*. (C31). 487319
- metabolism**
[^{18}F]-labeled 3-deoxy-3-fluoro-D-glucose: synthesis and preliminary biodistribution data. (B13, C21). 468927
- Investigation of [^{18}F]-2-fluoro-2-deoxyglucose for the measure of myocardial glucose metabolism.** (C62, C21, C31). 470149
- radiopharmaceuticals**
[^{18}F]-labeled 3-deoxy-3-fluoro-D-glucose: synthesis and preliminary biodistribution data. (B13, C21). 468927
- Investigation of [^{18}F]-2-fluoro-2-deoxyglucose for the measure of myocardial glucose metabolism.** (C62, C21, C31). 470149
- response modifying factors**
Experience in using the phenomenon of tissue respiration inhibition for radiation and combined therapy of malignant tumours. (C63). 494620
- GLUON MODEL:**
- The realm of gluons.** (A21). 489804
- Studying gluon properties experimentally.** (A21, A22). 489820
- What is glue good for, or gluons come out of the closet.** (A21). 489777
- algebra**
Towards an algebraic quantum chromodynamics. (A21, A11). 489771
- annihilation**
The sign of the OZI-rule violation amplitude in the gluonic annihilation model. (A21). 483641
- axial-vector currents**
Axial-vector gluons and the fine structure of heavy quark - antiquark systems. (A21, A11). 486039
- cascade showers**
Hadroproduction of massive lepton pairs and tests of QCD. (A20, A21; Transverse momentum distribution dependence). 468003
- color model**
Gluon distribution in hadrons. (A21, A11). 464762
- decay**
Echo hadrons: color confinement and fractionally charged states. (A21). 478509
- energy levels**
Rigorous results on measuring the quark charge below color threshold. (A21). 478471
- exchange interactions**
Three gluon exchange contribution to forward high energy scattering. (A21). 462548
- hyperfine structure**
QCD and hadron spectroscopy. (A21). 462542
- inelastic scattering**
Rigorous results on measuring the quark charge below color threshold. (A21). 478471
- longitudinal momentum**
Jet calculus: a simple algorithm for resolving QCD jets. (A21). 472014
- mass spectra**
Where and what are the scalar mesons. (A21). 486036
- pair production**
Scale violations and the quark-gluon correction to the Drell-Yan formalism. (A21, A11). 486028
- Simple prediction of quantum chromodynamics for angular distribution of dileptons in hadron collisions.** (A21, A11). 464766
- particle interactions**
Chirality conservation in the lattice gauge theory. (A11, A21). 467109
- particle production**
On the azimuthal asymmetry in gluon jet production. (A21). 468146
- psi resonances**
Hadronic decays of psi and one photon intermediate state. (A21). 481418
- scaling laws**
Scale breaking for quark and gluon distributions in quantum chromodynamics: A diagrammatic analysis. (A11). 485304
- transverse momentum**
Jet calculus: a simple algorithm for resolving QCD jets. (A21). 472014
- GLUONS:**
- bootstrap model**
Bootstrapping quarks and gluons. (A21). 493049
- bremsstrahlung**
Gluon bremsstrahlung by confined sources. (A21). 464788
- gauge invariance**
Non-abelian gauge theory in two dimensions. (A21). 468057
- jet model**
How to study a gluon jet produced by antiproton-proton colliding beams. (A21). 483620
- Multiplicity distributions in QCD.** (A21). 478464
- propagator**
The gluon propagator. (A11, A21). 471222
- quantum chromodynamics**
The gluon propagator. (A11, A21). 471222
- spin**
Measuring the spin of the gluon in e^+e^- annihilation. (A21). 468053
- structure functions**
Structure functions of quarks, gluons and hadrons in quantum chromodynamics. (A21). 478429
- vertex functions**
Measuring the triple gluon vertex. (A21). 464851
- GLUTAMIC ACID:**
See also PYRIDOXYLIDENEGLUTAMATE
- auditory organs**
Central transport and distribution of labelled glutamic and aspartic acids to the cochlear nucleus in cats. (C30). 494350
- electron spin resonance**
A magnetic resonance study of the segmental motion and local conformations of poly-(L-glutamic acid) in aqueous solutions.

- (B12). [Data] 493730
- GLUTAMINE:**
- metabolism**
- Amino acid metabolism in plant leaf, 3. (C45). 469874
- GLUTATHIONE:**
- biological radiation effects**
- Effects of x-irradiation on lens reducing systems. (C14; Rabbits). 472954
- radiosensitivity**
- Comparison of the protective action of glutathione and cysteamine on radiation-induced mitotic delay in cultured L-5 cells. (C11). 490918
- transferases**
- Assaying glutathione S-transferase activity in lung and liver with ³H-styrene oxide as substrate. (C31). 491071
- GLYCERIN:**
- See **GLYCEROL**
- GLYCEROL:**
- chemical radiation effects**
- Use of crystalloisolates for studying γ -initiated reactions of free radicals. (B14). 479189
- radiolysis**
- Pressure dependence and structural effect of solvated electron spectra in branched chain and multihydric alcohols. (B14). 465463
- Radiolysis of glycerol and its aqueous solutions. (B14). 479166
- GLYCIDES:**
- See **SACCHARIDES**
- GLYCINE:**
- emission spectra**
- Thermoluminescence and electron spin resonance studies of irradiated biological single crystals. (B25). 460809
- ovaries**
- Incorporation of glycine-1-¹⁴C in the developing ovary of silkworm *Bombayx mori* L. (C31). 461139
- radiolysis**
- Corrected G-values for amino acids and their complexes. (B14). [Data] 472544
- GLYCINE HISPIDA:**
- plant growth**
- Neutron radiography: a technique for studying young roots growing in soil. (C13; Effects of irradiation, depth of planting, and seed orientation on growth of root shoots). 461029
- radionuclide kinetics**
- Stack released plutonium in the environment of a nuclear fuel reprocessing facility. (B33, C22, C21, C52; Savannah River Plant). 487147
- GLYCOCOLL:**
- See **GLYCINE**
- GLYCOLIC ACID:**
- chemical radiation effects**
- Radiation degradation of poly(α -hydroxyisobutyric acid) and poly(glycolic ester). (B14; γ radiation). 460600
- photochemistry**
- Rate constants for self- and cross-termination of transient radicals by modulation electron spin resonance spectroscopy. (B12). 472455
- GLYCOLIPIDS:**
- radioimmunoassay**
- Radioimmunoassay of glycosphingolipids: application for the detection of Forssman glycolipid in tissue extracts and cell membranes. (C45). 484651
- GLYCOLS:**
- chemical radiation effects**
- Use of crystalloisolates for studying γ -initiated reactions of free radicals. (B14). 479189
- decontamination**
- Possibilities of purification of chemonuclear synthesis products and estimating costs of such operations. (B13). 479084
- emission spectra**
- Thermoluminescence and electron spin resonance studies of irradiated biological single crystals. (B25). 460809
- polarized targets**
- Dynamic polarization of protons and deuterons with Crsup(V)-complex in pure stable form. (B12). 468752
- radiolysis**
- γ -initiated transformations of α -diol alkoxide radicals (RO). (B14). 479169
- ESR studies of n-alkane diols irradiated by γ -rays; identification of radicals and mechanism of radical migration. (B14). [Data] 462780
- General regularities of radiation chemical transformations of bifunctional organic compounds. (B14). 479254
- Influence of Ni²⁺, Cu²⁺, Ca²⁺ ions on radiolysis of certain 1,2-bifunctional organic compounds. (B14; radiolysis of ethylene glycol, ethanolamine, ethylenediamine). 484104
- Metal ion effect on radiolysis of diols, aminoalcohols, diamines. (B14). 479250
- On the alcohol formation in radiolysis of water solutions of ethylene glycol. (B14). 468983
- On the mechanism of radical fragmentation of α -diols and some of their derivatives. (B14). 468967
- Pulse radiolysis of methanol solutions of ethylene glycol. (B14). 479317
- radiopharmaceuticals**
- Receptor-binding radiotracers: a class of potential radiopharmaceuticals. (C62, B13, C21). 473422
- GLYCOPROTEINS:**
- See also **LH**; **OVALBUMIN**
- chemical preparation**
- Studies on mannosyl glycoproteins of cultured fibroblasts. (C45). 476654
- chemical radiation effects**
- In vitro gamma-radiation effects on inhibitory and immunochemical properties of ovomucoid. (C11). 465882
- labelling**
- Studies on mannosyl glycoproteins of cultured fibroblasts. (C45). 476654
- radioimmunoassay**
- Elevated serum levels of a biliary glycoprotein (BGP I) in patients with liver or biliary tract disease. (C45). [Data] 476663
- Radioimmunoassay for PMSG and its application to in-vivo studies. (C45). [Data] 473171
- Radioimmunological assay of alpha-fetoprotein concentrations in blood serum samples from women in the first half of gestation. (C62). [Data] 484727
- GLYCOSIDES:**
- See also **DIGOXIN**
- GLYCOSYL HYDROLASES:**
- See also **LYSOZYME**
- cobalt 60**
- Radiation effects on activity and storage stability of endo-polygalacturonase. (C13). 472938
- extracorporeal irradiation**
- Radiation effects on activity and storage stability of endo-polygalacturonase. (C13). 472938
- GLYCYLGLYCINE:**
- crystal structure**
- Deformation electron density of α -glycylglycine at 82 K. II. The x-ray diffraction study. (B24). 490694
- radiolysis**
- Corrected G-values for amino acids and their complexes. (B14). [Data] 472544
- x-ray diffraction**
- Deformation electron density of α -glycylglycine at 82 K. II. The x-ray diffraction study. (B24). 490694
- GLYOXAL:**
- molecule-molecule collisions**
- Application of the collision-complex model to collision-induced intersystem crossing and collisional magnetic quenching of polyatomic molecules. (A12). 477819
- GNOME EVENT:**
- decommissioning**
- Project gnome decontamination and decommissioning plan. (E14). 480392
- decontamination**
- Decommissioning and decontamination activity, Gnome Site, Eddy County, New Mexico. (B31, F23). 490769
- GOATS:**
- radionuclide kinetics**
- Biological transport of curium-243 in dairy animals. (C21; Comparison to ²⁴¹Am kinetics in lactating cows and goats). [Data] 479963
- GODIVA REACTOR:**
- reactor kinetics**
- JEZEBEL and GODIVA. Informal report. (E36). 480729
- GOITER:**
- radiotherapy**
- Compensated low-dose ¹³¹I therapy of Graves' disease. (C15, C60). 469722
- GOLD:**
- absorption spectra**
- Effect of chemical environment on magnitude of x-ray absorption resonance at L/sub I/II edges. Studies on metallic elements, compounds, and catalysts. (B22). 486899
- absorption spectroscopy**
- Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- activation analysis**
- Determination of trace elements in poly(methyl methacrylate) by neutron activation analysis. (B11; Neutron reactions). [Data] 478829
- Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- Possibility of determination of gold using sup(197m)Au (T = 7.2 s) isomer and fast neutrons. (B11). 462672
- adsorption**
- Heats of chemisorption of O₂, H₂, CO, CO₂, and N₂ on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- argon 40 reactions**
- Distribution of excitation thermal energy between fragments of double nuclear system decay. (A34, A33). 493465
- Special role of α -cluster configurations in evolution of a double nuclear system. (A34). 493466
- backscattering**
- Hydrogen backscattering on gold: Charge state and energy distribution (300 eV - 10 keV). (A13). [Data] 471505
- charged-particle transport**
- Electronic stopping cross sections of 50-300-keV He and Li ions. (A32). 478590
- New technique for backscattering analysis. (A32, A12). [Data] 493137
- Stopping powers of Ag and Au for 0.3-2.0-MeV ⁴He ions. (A32). 468244
- Transmission sputtering of gold thin-films by low-energy (< 1 keV) xenon ions: I. The system and the measurement. (A12, A32). 463932

- cross sections**
Carrier capture cross-sections of gold centres in silicon at low temperature. (A13). 485632
K-shell photoionisation cross sections for 514, 661.6, 765.8 and 1115.5 keV gamma rays. (A12). [Data] 488889
- crystal lattices**
Influence of radiation damage evolution on lattice-location, measurements for Yb and Au in iron. (A13). 459794
- crystal structure**
LEED analysis of the reconstructed Au(110) surface. (B22). 476304
- deposition**
Study of the growth of vacuum condensed Au particles onto the (100) surfaces of KBr, KCl and NaCl substrates with colloidal centres. (A13). 485576
- deuteron reactions**
Application of the distorted wave method to the analysis of the deuteron disintegration reaction. (A33). 493317
- doped materials**
Carrier capture cross-sections of gold centres in silicon at low temperature. (A13). 485632
- doppler broadening**
Low-temperature effects in metals as observed by positron annihilation. (B21, B22). 486854
- electrons**
Determination of partial and total scattering cross-sections for high energy electrons in the range 1.2-3 MeV. (A32). 483719
- emission spectroscopy**
Simultaneous determination of platinum group metals and gold, in ores and related plant materials by inductively coupled plasma-optical emission spectrometry. (B11). 472401
- erbium additions**
Effects of pressure in the paramagnetic resonance spectra of the Er in thin films of Au and Ag. (A13). 471519
- f states**
Valence state at the surface of rare-earth metals. (B22). 490592
- films**
Diffusion profiles of thin films of gold in titanium. (A34). 472284
Effects of pressure in the paramagnetic resonance spectra of the Er in thin films of Au and Ag. (A13). 471519
- grain boundaries**
Interfacial behavior of Cr-Au films in the 423-573-K temperature range. (B22, B15). 469184
- hyperfine structure**
Atomic-beam experiments at the ISOLDE-facility at CERN. (A12). 477733
- impurities**
Use of nuclear reactions and ion channeling techniques for depth profiling hydrogen isotopes in solids. (B21, B11). 493861
- ion channeling**
Resonant coherent excitation of channeled ions. (B25). 476390
- ion collisions**
Projectile-charge-state dependence of target L-shell ionization by 1.86-MeV/amu fluorine and silicon ions and 1.8-MeV/amu chlorine ions. (A12). 477786
- ion implantation**
Defect production and electronic stopping for light ions in metals. (A14, B25). 485651
Ranges of $^{27}\text{Al}^+$ ions in nine metals measured by (p, γ) resonance broadening. (A13). [Data] 471478
Transmission electron microscopy study of ion energy deposition in gold: evidence for a spike threshold. (A13). 459823
- X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- ion-ion collisions**
Interpretation of the anisotropy of M MO radiation in slow I on Au collisions. (A12). 483174
- isotope dilution**
Determination of gold traces in platinum by isotope dilution. (B11). 475908
- kapitza resistance**
Dynamic measurement of the Kapitza resistance. (A17). 467990
- layers**
Factors determining the structure of Au, Ag and Cr thin layers deposited on alkaline halogen substrates. (A13). 459785
Use of surface plasmon excitation for determination of the thickness and optical constants of very thin surface layers. (A13). 459812
- lifetime**
Low-temperature effects in metals as observed by positron annihilation. (B21, B22). 486854
- mines**
Mine that would not die. (B31, B21). 481917
New slurry suspension system developed for uranium plant. (B31). 481918
R2 million development at Western Deep Levels uranium plant. (B31, F12). 484331
- moessbauer effect**
Internal conversion study on the contact charge density of ^{57}Fe impurity atoms in Au metal. (A13, B22). 483277
- neutron activation analysis**
Neutron activation analysis of gold, silver, tungsten and antimony at the scheelite deposit of Felbertal (Austria) and their geological-genetical interpretation. (B11). 490287
Sulfide geochemical survey in Dawahan, Larap, Camarines Norte (Southern Luzon), Philippines. (B11). [Data] 484004
- photon-atom collisions**
Photoelectric cross sections derived from the total absorption cross sections in the energy range 5-130 keV. (A32). [Data] 460269
- photonuclear reactions**
Determination of Pd, Ag, Pt and Au in electrolytic copper by activation with high-energy photons. (B11). 484005
- physical radiation effects**
Computer simulation of cascade developments in amorphous targets. (B25). 472791
Electron microscopy of low energy ion damage in metals. (B25). 481908
- plasma waves**
Surface plasma waves in the noble metals. (A13). 459799
- positrons**
Positron annihilation in gold between 27 K and 592 K. (A13). 492693
- production**
Randfontein estates - success story as an old timer fights back. (B31, B21). 481915
Success with high pressure leaching technique means ... Afrikaner Lease lives again. (B31, F12, B21). 476402
- quantitative chemical analysis**
Determination of gold traces in platinum by isotope dilution. (B11). 475908
- secondary emission**
A comparison of experimental secondary ion energy spectra of polycrystalline metals with theory. (A13). [Data] 471558
- sputtering**
Application of matrix isolation spectroscopy to the measurement of sputtering yields. (B21). 476232
Implications in the use of sputtering for layer removal: the system Au on Si. (A13). 481074
Low-energy hydrogen sputtering of Au, Ni and stainless steel. (A14, B25). 464453
Nonlinear sputtering effects in thin metal films. (A12). 467326
Sputtering of gold by fast neutrons. (A12). 467232
Transmission sputtering of gold thin-films by low-energy (< 1 keV) xenon ions: I. The system and the measurement. (A12, A32). 463932
- stability**
Stability of colloidal gold and determination of the Hamaker constant. (B12). 472423
- stopping power**
A modified treatment of low energy elastic stopping power in dense structureless media. (A13). [Data] 471544
- surface properties**
Valence state at the surface of rare-earth metals. (B22). 490592
- thermal diffusion**
Diffusion profiles of thin films of gold in titanium. (A34). 472284
- vacancies**
The electrical resistivity and volume change due to a lattice vacancy in gold. (B22). 484164
- waste disposal**
Binding the dust. (E51); Surface stabilisation on mine dumps by grass planting). 482914
- x-ray fluorescence analysis**
Portable x-ray analyzer for in situ gold qualification. (E41, B11). 466796
- x-ray spectra**
Parity nonconservation effects in X-ray atomic spectra. (A12). 467207
Time-resolved suprathermal x-rays. (A14). 467602
- GOLD ADDITIONS:**
- silicon**
The distribution of phosphorus and gold in neutron irradiated silicon. (A13). 471431
- GOLD ALLOYS:**
See also GOLD BASE ALLOYS
- copper 64**
Determination of the electron density at the Cu nucleus in Cu-Au alloys. (A13, B22). 483264
- corrosion protection**
Corrosion inhibition in sputter-deposited thin-film systems using an intermediary layer of palladium. (B15). 476195
- critical field**
Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089
Superconducting properties of AuGa and AuGa₂ compounds. (B22, A17). 472642
Upper critical fields of Nsub(approximately 3)Au, Nb₃Ausub(0.7)Ptsub(0.3) and Nb₃Pt. (B22). [Data] 481809
- crystal structure**
Electronic behavior in alloys: Gold - non-transition-metal intermetallics. (B22). [Data] 465649
Systematical trends of nuclear quadrupolar relaxation in metallic liquid alloys of indium. (B25). 481888
- diffusion**
Measurement of grain-boundary diffusion at low temperature by the surface-accumulation method. II. Results for gold-silver system. (B22). 465599
- electric conductivity**
Moessbauer effect and electrical resistivity in splat-quenched la-Au alloys. (B22). 479429
- equations of state**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- interstitials**
The recovery of Ag and the formation of mixed dumbbells in Ag alloyed with Au after thermal-neutron irradiation. (B25, A13). 490710
- magnetic susceptibility**
Magnetism in SEAu₃ intermetallics (SE=Gd, Tb, Dy, Ho, Er and Tm). (A13). 464173

- mechanical properties**
Application of composition modulated thin films. (B22, B21). 486888
- moessbauer effect**
Moessbauer effect and electrical resistivity in splat-quenched la-Au alloys. (B22). 479429
- photoemission**
Electronic behavior in alloys: Gold - non-transition-metal intermetallics. (B22). [Data] 465649
- physical radiation effects**
Atomic rearrangements in ordered fcc alloys during neutron irradiation. (B25). 469429
Radiation disorder model of phase stability. (B25, A14). 465734
Radiation ordering in quenched alloys observed 'in situ' in the high voltage microscope. (B25). 490748
The recovery between 30 K and 400 K of copper and copper alloyed with gold after thermal-neutron irradiation. (B25). [Data] 472735
The recovery of Ag and the formation of mixed dumbbells in Ag alloyed with Au after thermal-neutron irradiation. (B25, A13). 490710
- surface properties**
Surface segregation of Ag and/or Au on clean Ag-Au alloys with ion-bombardment and/or annealing. (A13). [Data] 481168
- transition temperature**
Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
Superconducting properties of AuGa and AuGa₂ compounds. (B22, A17). 472642
- transport**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- GOLD BASE ALLOYS:**
- crystal field**
Nuclear resonance of ytterbium local moments in gold. (B22). 465593
- hyperfine structure**
Nuclear resonance of ytterbium local moments in gold. (B22). 465593
- kondo effect**
Hyperfine effects on the specific heat and Kondo resistivity of Au Yb. (A17). 462509
- phase transformations**
Diffuse scattering of electron and X-rays and peculiarities of structure state of Au-30At.% Ni alloy. (B22). 469167
- transition temperature**
Elastic strain energy dependence of Tsub(c) in ternary gold-based solid solutions. (B22, A17). 472644
- GOLD CHLORIDES:**
- x-ray diffraction**
Application of a new 'high pressure' measuring procedure for a four circle diffractometer to the structure investigations of cesium-gold-chloride. (A13). 467386
- GOLD COMPLEXES:**
- chemisorption**
Pd(II) and ¹⁹⁸Ai(III) sorption on 4(benzylcellulose)phenylthiocarbamoylamine. (B12). [Data] 462746
- moessbauer effect**
¹⁹⁷Au Moessbauer spectra of two-, three-, and four-coordinate gold(I) complexes. (A13, B12). 483273
- phosphines**
¹⁹⁷Au Moessbauer spectra of two-, three-, and four-coordinate gold(I) complexes. (A13, B12). 483273
- solvent extraction**
Solvent extraction of gold(III) with 1-phenyl-3-methyl-4-trifluoroacetylpyrazolone-5. (B11, B12). 462658
- GOLD COMPOUNDS:**
See also GOLD CHLORIDES; GOLD HYDRIDES
- absorption spectra**
Effect of chemical environment on magnitude of x-ray absorption resonance at L/sub 1/11 edges. Studies on metallic elements, compounds, and catalysts. (B22). 486899
- radiolysis**
Metal ions of (I-IV) B-groups in unstable oxidation states (electron state ²Ssub(1/2) in γ-irradiated aqueous solutions at 77°K. (B14). 493785
- GOLD HYDRIDES:**
- transition temperature**
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
- GOLD IONS:**
- ion sources**
The energy spread of metal ions drawn from their liquid. (A12, D14). 477729
- ion spectroscopy**
Comparison of tungsten and gold radiation from beam-foil excitation and tokamak-produced plasmas. (A14). 478078
- ion-atom collisions**
Single-electron-capture cross sections for multiply charged O, Fe, Mo, Ta, W, and Au ions incident on H and H₂ at intermediate velocities. (A12). 464043
Theory of electron transfer and ionization. (A12). 474558
- ion-molecule collisions**
Single-electron-capture cross sections for multiply charged O, Fe, Mo, Ta, W, and Au ions incident on H and H₂ at intermediate velocities. (A12). 464043
- stopping power**
A modified treatment of low energy elastic stopping power in dense structureless media. (A13). [Data] 471544
- GOLD ISOTOPES:**
See also GOLD 185; GOLD 190; GOLD 192; GOLD 194; GOLD 195; GOLD 196; GOLD 197; GOLD 198; GOLD 199; GOLD 200; GOLD 203
- deuteron reactions**
On the account of finite range of nuclear forces between neutrons and protons in the problem of deuteron spallation by the Coulomb nuclear field. (A33). 493222
- GOLD ORES:**
- air pollution**
Lime in gold and uranium mining. (E51). 482915
- ore processing**
New advances in processing ore and minerals underground. (B31). 484354
- separation processes**
Wet high intensity magnetic separation could improve gold recovery. (B16). 481758
- water pollution**
Lime in gold and uranium mining. (E51). 482915
- GOLD 185:**
- high spin states**
In-beam spectroscopic of ¹⁸⁹191 ¹⁹³Tl and ¹⁸⁵Au. (A33). 468339
- GOLD 190:**
- high spin states**
Observation of rotation-aligned bands in the odd-odd nuclei ¹⁹⁰192 ¹⁹⁴Au. (A34). 460350
- particle-core coupling model**
Quasi-rotation-aligned bands in the odd-odd Au nuclei. (A33). 468433
- rotational states**
Quasi-rotation-aligned bands in the odd-odd Au nuclei. (A33). 468433
- GOLD 192:**
- high spin states**
Observation of rotation-aligned bands in the odd-odd nuclei ¹⁹⁰192 ¹⁹⁴Au. (A34). 460350
- particle-core coupling model**
Quasi-rotation-aligned bands in the odd-odd Au nuclei. (A33). 468433
- rotational states**
Quasi-rotation-aligned bands in the odd-odd Au nuclei. (A33). 468433
- GOLD 194:**
- high spin states**
Observation of rotation-aligned bands in the odd-odd nuclei ¹⁹⁰192 ¹⁹⁴Au. (A34). 460350
- nuclear potential**
Nuclear structure effect on the imaginary part of the optical potential in ²⁷Al, ¹²¹Sb, ¹²³Sb and ¹⁹⁷Au odd nuclei. (A33). 493327
- particle-core coupling model**
Quasi-rotation-aligned bands in the odd-odd Au nuclei. (A33). 468433
- rotational states**
Quasi-rotation-aligned bands in the odd-odd Au nuclei. (A33). 468433
- GOLD 195:**
- energy levels**
Changing deformations and the role of the Coriolis interaction in heavy transitional nuclei as revealed by single proton transfer reactions. (A34; 35.1 and 41.2 MeV, spectroscopic factors, stripping strengths, excitation energies). 468533
- GOLD 196:**
- electron capture decay**
The electron-capture decay of ¹⁹⁶Au. (A34). 465203
- energy levels**
Study of the ¹⁹⁶Au energy levels using the ¹⁹⁷Au(γ,n) reaction. (A33). 460279
- GOLD 197:**
- energy levels**
Changing deformations and the role of the Coriolis interaction in heavy transitional nuclei as revealed by single proton transfer reactions. (A34; 35.1 and 41.2 MeV, spectroscopic factors, stripping strengths, excitation energies). 468533
- excited states**
Measured lifetimes of states in ¹⁹⁷Au and a critical comparison with the weak-coupling core-excitation model. (A34). 483845
- moessbauer effect**
¹⁹⁷Au Moessbauer spectra of two-, three-, and four-coordinate gold(I) complexes. (A13, B12). 483273
- Electronic behavior in alloys: Gold - non-transition-metal intermetallics. (B22). [Data] 465649**
- weak-coupling model**
Measured lifetimes of states in ¹⁹⁷Au and a critical comparison with the weak-coupling core-excitation model. (A34). 483845
- GOLD 197 TARGET:**
- alpha reactions**
⁴He induced reactions on ⁴⁵Sc at T(⁴He)=150 MeV and on ²³⁸U, ¹⁹⁷Au, ¹²⁰Sn and ⁶⁷Zn at T(⁴He)=140 MeV. (A34). 483860
Mechanism of (α,p), (α,d), and (α,t) reactions in ²⁷Al, ⁵⁹Co, and ¹⁹⁷Au. (A34). 465121
On mechanism of the (α, p), (α, d) and (α, t) reaction on ²⁷Al, ⁵⁹Co and ¹⁹⁷Au nuclei. (A34). 468472
- argon 40 reactions**
Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
- copper 63 reactions**
Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
- deuteron reactions**
Elastic scattering of polarized deuterons from ²⁸Si, ⁵⁸Ni, ⁹⁰Zr and ¹⁹⁷Au. (A34). 486414

- Kinetic study of binary and ternary fission induced by 2.1 GeV deuterons incident on U, Th, Bi, Pb and Au targets. (A34). 481543
- Radiative capture of deuterons in Ba and Au. (A34). [Data] 486405
- fission fragments**
- Fission fragment distribution of the $^{197}\text{Au}(d,f)$ reaction. (A34). 465164
- Measurement of $A = 95$ and 105 fission-product yields from $^{197}\text{Au}(\alpha, \text{fission})$ and their charge distribution. (A34). 465212
- krypton 86 reactions**
- Dynamical birth and thermal death of angular momentum in heavy ion reactions. (A34; Collective model, 600 MeV, cross sections, J). 478753
- Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
- neon 20 reactions**
- Measurements at low and intermediate rapidity. (A22, A34; 0.40 to 2.10 GeV/n, differential cross sections, reaction mechanisms). 468187
- Nucleon transfer reactions in the $\text{sup}(197)\text{Au} + \text{sup}(20)\text{Ne}$ system (110 MeV). (A34; $\text{sup}(12,13,14,15)\text{C}$, $\text{sup}(14,15,16,17)\text{N}$, $\text{sup}(16,17,18,19,20)\text{O}$ are the reaction products). 468438
- neutron reactions**
- Absolute measurements of some neutron activation cross sections in ^{27}Al , ^{115}In and ^{197}Au at 14.9 MeV. (A31). [Data] 462588
- Measurement and calculation of average activation cross sections in the spontaneous fission neutron field of ^{252}Cf . (A34). 460346
- Neutron capture cross sections of rhodium, thulium, iridium, and gold between 0.5 and 3.0 MeV. (A34). [Data] 472265
- 14.7-MeV neutron capture cross-section measurements with activation technique. (A31). [Data] 478577
- nucleon-nucleon potential**
- Coherent theoretical interpretation of nucleon interactions with ^{197}Au . (A33). [Data] 481476
- photoneuclear reactions**
- Some $(\gamma, \pi \text{ xn})$ reactions on ^{197}Au at intermediate energies. (A34). [Data] 472238
- pion minus reactions**
- Absorption of stopped π^- in ^{59}Co , ^{75}As , ^{197}Au and ^{209}Bi investigated by in-beam and activation γ -ray spectroscopy. (A34). 468543
- pion reactions**
- $(\pi, \pi\text{N})$ reactions on ^{25}Mg and ^{197}Au . (A34). 490193
- proton reactions**
- Product mass and charge distributions in the interaction of relativistic protons with Ta, Au, U. (A34). [Data] 486313
- sulfur 32 reactions**
- Out-of-plane correlation between alpha particles and heavy ions from the reaction of 373 MeV ^{32}S with gold. (A34). 486381
- Out-of-plane correlations of α -particles and heavy ions in the reaction of 373 MeV ^{32}S with gold. (A34). [Data] 486380
- GOLD 198:**
- blood-plasma clearance**
- Hepatology. (C61; Radionuclide studies). 482315
- colloids**
- Preparation of monodispersed colloid solution of radioactive gold-198. (B13). 479102
- depth dose distributions**
- Dosimetry in intrathecal radiogold therapy. 3. (C64). 466436
- dose rates**
- Dosimetry in intrathecal radiogold therapy. 3. (C64). 466436
- radiation source implants**
- Treatment of pericardial tumours of horses using radioactive gold¹⁹⁸ grains. (C64). 482496
- scintiscanning**
- Study of objective signs of chronic lymphedema of the lower limbs. (C62). 482365
- GOLD 199:**
- energy levels**
- Changing deformations and the role of the Coriolis interaction in heavy transitional nuclei as revealed by single proton transfer reactions. (A34; 35.1 and 41.2 MeV, spectroscopic factors, stripping strengths, excitation energies). 468533
- GOLD 200:**
- energy levels**
- Nuclear data sheets for $A=200$. (A34). [Data] 465214
- nuclear properties**
- Nuclear data sheets for $A=200$. (A34). [Data] 465214
- GOLD 203:**
- Evidence for the existence of ^{203}Au . (A34). [Data] 465193
- GOLDHABER-TELLER MODEL:**
- See **GIANT RESONANCE MODEL**
- GOLDSTONE BOSONS:**
- See also **AXIONS**
- GONADOTROPINS:**
- See also **FSH; LH; LTH**
- III**
- Simultaneous radioimmunoassay of luteinizing hormone and follicle-stimulating hormone. (C45). [Data] 487347
- radioimmunoassay**
- Development and application of homologous radioimmunoassays for porcine gonadotrophins. (C45). 476664
- Immunological relatedness of gonadotrophins of various fishes as shown by radioimmunoassays. (C45). 463352
- Modification of the choriongonadotropin beta-subunit radioimmunoassay for determination of urinary choriongonadotropin. (C62; ^{125}I tracer technique). 470134
- Radioimmunological properties of antisera from carp gonadotropin (c-GTH) and its subunits. (C45). 463334
- Simultaneous radioimmunoassay of luteinizing hormone and follicle-stimulating hormone. (C45). [Data] 487347
- response modifying factors**
- Effects of pelvic telecobalt irradiation on gonadotropin secretion. (C63). 487758
- GONADS:**
- See also **OVARIES; TESTES**
- radiation doses**
- Absorbed doses to patients and personnel from endoscopic retrograde cholangiopancreatographic (ERCP) examinations. (C15, C61). 494313
- Determination of gonadal dose in diagnostic radiology in Turkey. (C55). 487652
- Evaluation of the health hazard from inhaled krypton-85. (C21). 473045
- Practical method for monitoring diagnostic radiation dosage in the newborn nursery. (C15, C61). 487278
- shields**
- Protective device for organs exposed to medical X-radiation. (C45). 469889
- GONIOMETERS:**
- specifications**
- X-ray and neutron diffraction from liquid alkali metals. (A13). 471473
- stress analysis**
- Stress measuring goniometer for testing structural components. (E42). 466843
- GONORRHEA:**
- diagnostic techniques**
- Detection of gonococcal antigens in urine by radioimmunoassay. (C62). 491358
- radioimmunoassay**
- Inhibitors in urine of radioimmunoassay for the detection of gonococcal antigens. (C62). 491359
- A solid phase radio immunoassay on hydrophobic membrane filters: detection of antibodies to gonococcal surface antigens. (C45; gonococcus). 461155
- GORKOV-ELIASBERG THEORY:**
- (Theory of gapless superconductivity arising from magnetic impurities.)
- order parameters**
- Mode propagation in superconductors near $T/\text{sub } c/$. (A17). 464714
- wave propagation**
- Mode propagation in superconductors near $T/\text{sub } c/$. (A17). 464714
- GOVERNMENT POLICIES:**
- United States uranium enrichment policies. (D11). 487773
- atomic energy law**
- Regulatory aspects of underground disposal of radioactive waste - Danish notes. (F22). 480917
- japan**
- Amendment of Atomic Energy Basic Law and the development of Atomic Energy Administration. (F27). 477522
- GRABS:**
- fuel rods**
- Device for replacing the rods of a fuel element of a nuclear reactor. (E13). 461515
- GRACE PARTICLES:**
- gauge invariance**
- $U_3(W)$ -gauge theory - IV. The Kolar events. (A21). 462568
- GRADED LIE GROUPS:**
- (Lie groups defined by an algebraic structure which contains commutation and anticommutation relations.)
- algebra**
- Generalized Lie algebras. (F51). 485249
- mathematical manifolds**
- Modified super-symmetries. (A11). 471210
- On algebras, manifolds, and fibre bundles in physics. (A11). 471219
- topological mapping**
- Modified super-symmetries. (A11). 471210
- GRAFENRHEINFELD REACTOR:**
- courts**
- Danger defence and risk provision in nuclear law. (F22, E32). 488421
- spent fuel storage**
- Public hearing on compact storage racks in the Ohu and Grafenrheinfeld power plants. (E31, E32). 470622
- Publication of the project of Bayernwerk AG, Munich, and Kraftwerk Union AG, Frankfurt, to raise the capacity of the spent fuel pit at Grafenrheinfeld nuclear power plant by installing compact storage racks. (E32). 461690
- GRAFT POLYMERS:**
- chemical radiation effects**
- A kinetic feature of the radiation-induced crosslinking graft polymerization of various monomers onto polyethylene. (B14). 468985
- chemical reaction kinetics**
- A kinetic feature of the radiation-induced crosslinking graft polymerization of various monomers onto polyethylene. (B14). 468985
- Studies on radiation-induced graft polymerization. (B14, D23). 481733
- radiolysis**
- N-vinylpyrrolidone graft by irradiation in silicon. (B14). 490502
- GRAFT-HOST REACTION:**
- Transplantation of bone marrow in outbred dogs without graft-versus-host disease using total lymphoid irradiation. (C14). [Data] 479857
- biological radiation effects**
- Drug-induced chimerism and prevention of graft-versus-host disease in lethally irradiated mice transplanted with rat bone marrow. (C14; Gamma radiation). 479851
- Marrow graft rejection in DLA-identical canine littermates: antigens

- involved are expressed on leukocytes and skin epithelial cells but probably not on platelets and red blood cells. (C14; Gamma radiation). [Data] 466108
- Resistance of transplantation tolerance to X-irradiation. (C14). 494297
- Role of suppressor cells in transplantation tolerance. (C14; Rats, whole-body irradiation). 466130
- gamma radiation**
- Immunologic study of T and B lymphocytes in thymectomized monkeys after irradiation and autologous bone marrow transplantation. (C14). 463128
- immunosuppression**
- GVHD suppression by incubation of bone marrow grafts with anti-t-cell globulin: effect in the canine model and application to clinical bone marrow transplantation. (C14). 466080
- GRAFTS:**
- biological recovery**
- Free flap transfers in rats using an irradiated recipient site. (C14). 476551
- radionuclide kinetics**
- Quantitative radionuclide imaging for early determination of fate of mandibular bone grafts. (C62, C21; /sup 99m/TC-I-hydroxyethane-I-diphosphonate (HEDP); Beagles). 473487
- GRAIN ALCOHOL:**
- See ETHANOL
- GRAIN BOUNDARIES:**
- diffusion**
- Grain boundary diffusion of nickel in γ -iron. (A13). 488987
- Measurement of grain-boundary diffusion at low temperatures by the surface accumulation method. I. Method and analysis. (A13). 464171
- electric conductivity**
- Dc voltage dependence of semiconductor grain-boundary resistance. (A13). 485631
- migration length**
- Diffusion induced grain boundary migration. (A13). 488959
- irradiation**
- Radiation technology for grain disinfestation. (C43). 473151
- GRAMINEAE:**
- See also BARLEY; CEREALS; MAIZE; MILLET; OATS; RICE; SORGHUM; WHEAT
- contamination**
- Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
- Environmental radioiodine monitoring to control exposure expected from containment release accidents. Final report. (C22, C21, C52; Adult human thyroid dose commitments from ¹³¹I-contaminated forage-cow-milk-man food chain). 476625
- population dynamics**
- Revegetation following artificial disturbance. Three year progress report, June 1, 1975 - February 28, 1978. (B31, C52, C13). 476419
- radioactivity**
- Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). 490849
- Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
- Studies on behaviour of transuranic elements in plants. (C22, C21). 473108
- [Data]
- radionuclide kinetics**
- Behavior of technetium and iodine in a Hanford sand and associated subsoil: influence of soil aging on uptake by cheatgrass and tumbleweed. (B31, C22, C21, B13). 479569
- Comparative availability of cesium and strontium for plant absorption from amended Rupert surface soil and associated subsoil: influence of growth conditions. (B31, C21, C22; Effects of cultivation techniques on ¹³⁴Cs and ⁸⁷Sr uptake from soils by cheatgrass and tumbleweed.). [Data] 479570
- GRAND GULF-1 REACTOR:**
- foundations**
- Deep foundation rebound instrumentation at the Grand Gulf Nuclear Power Station. (E31). 466660
- reactor sites**
- Tornado damage at the Grand Gulf, Mississippi nuclear power plant site: Aerial and ground surveys. Technical report. (C52). 466294
- GRAND GULF-2 REACTOR:**
- foundations**
- Deep foundation rebound instrumentation at the Grand Gulf Nuclear Power Station. (E31). 466660
- reactor sites**
- Tornado damage at the Grand Gulf, Mississippi nuclear power plant site: Aerial and ground surveys. Technical report. (C52). 466294
- GRANITES:**
- acoustic emission testing**
- Stress memory of crystalline rocks in acoustic emission. (B31). 465777
- adsorption**
- Controlled sample program publication No. 1: characterization of rock samples. (E52; Interlaboratory methodology comparison for measuring radionuclide distribution in rocks). 461934
- Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1 - December 31, 1978. (B32, B31). [Data] 472851
- Sorption-desorption studies on granite. I. Initial studies of strontium, technetium, cesium, barium, cerium, europium, uranium, plutonium, and americium. (E52, C52, B31). 474248
- Studies of actinide sorption on selected geologic materials. (C52).
- [Data]
- decomposition**
- Radioactive tracer studies of soil and litter arthropod food chains. Progress report, November 1, 1977 - October 31, 1978. (C22). 469805
- desorption**
- Sorption-desorption studies on granite. I. Initial studies of strontium, technetium, cesium, barium, cerium, europium, uranium, plutonium, and americium. (E52, C52, B31). 474248
- geochemistry**
- Geochemistry and isotope hydrology of groundwaters in the Stripa Granite: results and preliminary interpretation. (E52, B31). 488363
- geology**
- Rock mass characterization for storage of nuclear waste in granite. (E52, B31). 495232
- heat transfer**
- Parametric thermoelastic analyses of high-level waste and spent fuel repositories in granite and other non-salt rock types. (E52). 488381
- himalayas**
- Geochronological and geological studies on a granite of higher Himalaya, North-East of Manikaran, Himachal Pradesh. (B31). 469476
- hydrology**
- Geochemistry and isotope hydrology of groundwaters in the Stripa Granite: results and preliminary interpretation. (E52, B31). 488363
- Rock mass characterization for storage of nuclear waste in granite. (E52, B31). 495232
- inventories**
- Inventory of granitic masses in the State of Nevada. (B31, E52). 476458
- isotope dating**
- Contemporaneity of tertiary granites in the outer zone of Southwest Japan. (B31). 476456
- Geochronological and geological studies on a granite of higher Himalaya, North-East of Manikaran, Himachal Pradesh. (B31). 469476
- Rb-Sr geochronology of rocks from the Kolar schist belt, South India. (B31). 460834
- materials testing**
- Investigations in granite at Stripa, Sweden for nuclear waste storage. (E52, B31). 480906
- metamorphism**
- Hydrothermal convection and uranium deposits in abnormally radioactive plutons. (B31). 469500
- permeability**
- Approach to the fracture hydrology at Stripa: preliminary results. (B31, E52). 487078
- Complementary measurements of the permeability in the area around Karlshamn, Sweden. (E52). [Data] 480879
- Permeability of generic repository rocks at simulated in situ conditions. (B31, E52; Comparison of Westerly granite and White Lake gneissic granite). [Data] 487093
- physical properties**
- Preliminary report on geophysical and mechanical borehole measurements at Stripa. (B31, E52). 487107
- radionuclide migration**
- Disposal of radioactive waste in granitic bedrock. (E52, B31). 480862
- In situ experiments on nuclide migration in fractured crystalline rocks. (B31, E52). [Data] 494199
- Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1 - December 31, 1978. (B32, B31). [Data] 472851
- Sorption-desorption studies on granite. I. Initial studies of strontium, technetium, cesium, barium, cerium, europium, uranium, plutonium, and americium. (E52, C52, B31). 474248
- rock mechanics**
- Pilot heater test in the Stripa granite. (E52). 471069
- Rock stress measurements in Stripa Mine. (E52). [Data] 492255
- stress analysis**
- Technical support for GEIS: radioactive waste isolation in geologic formations. Volume 20. Thermo-mechanical stress analysis and development of thermal loading guidelines. (E52). [Data] 466889
- stresses**
- Stress memory of crystalline rocks in acoustic emission. (B31). 465777
- thermal fatigue**
- Rock mass characterization for storage of nuclear waste in granite. (E52, B31). 495232
- GRANODIORITES:**
- age estimation**
- Fission track dating of the Tertiary rock samples from Northeast Japan. (B31). 476465
- alpha spectroscopy**
- Alpha-ray spectrometry of uranium-series and thorium-series nuclides in the granodiorite reference material GSJ JG-1. (B11). [Data] 472361
- strontium 86**
- Strontium isotope geochemistry of late cretaceous granodiorites, Jamaica and Haiti, Greater Antilles. (B31). 484349
- strontium 87**
- Strontium isotope geochemistry of late cretaceous granodiorites, Jamaica and Haiti, Greater Antilles. (B31). 484349
- GRANULATION (SOLAR):**
- See SOLAR GRANULATION
- GRANULOCYTES:**
- See LEUKOCYTES

GRANULOMAS:

- biomedical radiography**
Intracranial tuberculomas and the CAT scan. (C61). 482294
- diagnosis**
⁶⁷Ga-citrate uptake by the parotid glands in sarcoidosis. (C62, C21; Effectiveness for differential diagnosis). 494569
- diagnostic techniques**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- gallium 67**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- mediastinum**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- salivary glands**
Lacrimal, parotid and mediastinal uptake of gallium 67 in sarcoidosis. (C62). 494531
- GRAPHITE:**
Carbon and graphite. Part 3. Graphite - physical, mechanical, and structural studies (a bibliography with abstracts). Report for 1964 - August 1978. (B24, E22). 472726
Contributions for the 14th Biennial Conference on Carbon June 25th - 29th, 1979. (B24, B25). 484295
- adsorbents**
Condensation and compression of argon monolayers on graphite. (B24). 484298
Potentiometric investigation into potential curves of iron ion adsorption on carbonic materials. (B12). 479004
- adsorption**
Theory of orientational epitaxy in the self-consistent phonon approximation. (B24). 490698
- annealing**
Annealing of neutron damage in graphite irradiated and stored at room temperature. (B24, B25; Neutron fluence 1.5, 5.5, and 15 MeV). 465705
- boron**
The effect of substitutional boron on irradiation damage in highly oriented pyrolytic graphite irradiated at 60°C. (B24). 462931
- catalysts**
Method of adding catalyst in gasification reaction of graphite. (B16). 472597
- charged-particle transport**
Characteristic x rays due to projectiles moving through solids. (A32). 490022
- chemical properties**
Carbon and graphite. Part 4. Graphite - chemical properties (a bibliography with abstracts). Report for 1964 - September 1978. (B12, B24). 472463
- chemical radiation effects**
Radiation chemistry in gas-cooled nuclear reactors. (B14, E33). 484112
- chemical reactions**
Methane generated from graphite-tritium interaction. (B13, B12; In hydrogen isotopes separation by cryogenic distillation). 465440
- composite materials**
Hot-pressed and molten carbide-carbon materials. (B23). 484282
- corrosion**
The corrosion induced change of pore size distribution and surface area of a fuel element graphite. (B15). 460620
Experiments to study the effects of interaction of HTR helium with metals, alloys and ceramics. (B15). 486780
Radiation chemistry in gas-cooled nuclear reactors. (B14, E33). 484112
- crucibles**
Application of metal oxide refractories for melting and casting reactive metals. (B23, B21). 486961
- degassing**
Graphite degassing. (B22, A14). 486885
UHV compatibility of two possible fusion reactor materials: K-ramic/sup R/ and ATJ graphite. (A14). 475097
- diffusion**
The use of tracers in measuring fission product transport in graphite. (B24). 460801
- elasticity**
On the softening of the elastic constant, C_{44} , in graphite. (B24). [Data] 462930
- electron-atom collisions**
The K-shell cross-section for 80 keV electrons in single-crystal graphite and AlN. (A32, B11). [Data] 472130
- epitaxy**
Theory of orientational epitaxy in the self-consistent phonon approximation. (B24). 490698
- fracture properties**
Fracture toughness of reactor grade graphites, 2. (B24). [Data] 490701
Fracture toughness of reactor grade graphites, 1. (B24). [Data] 490682
- gamma dosimetry**
Central-axis 60Co ionization measurements in graphite as a function of phantom diameter, depth, and field size. (D15). 487794
- gamma radiation**
Elastic and inelastic Moessbauer gamma scattering in a pyrolytic graphite crystal. (A13). 492665
- helium**
Diffraction of helium atoms by the basal (0001) face of graphite: a study of bound state resonances. (A13). 467369
- hot atom chemistry**
Interaction of energetic tritium with silicon carbide. (B13). [Data] 472476
- impregnation**
Pyrolytic carbon coating within pores of graphite. (B24). 469401
- internal friction**
Study by internal friction of curing low temperature irradiation defects in graphite. (B25). 490744
- k shell**
The K-shell cross-section for 80 keV electrons in single-crystal graphite and AlN. (A32, B11). [Data] 472130
- materials testing**
Assessment of carbon and silicon carbide as first wall materials in inertial confinement fusion reactors. (A14). 475041
First wall thermal stress analysis for suddenly applied heat fluxes. (A14). 474984
- mechanical properties**
Properties of unirradiated production grade H-451; lot 478. (B24). 465701
- mixing**
Investigation of mixing processes in the production of carbon and SiC materials by means of radioactive labelling. (D24). 482535
- moderators**
Technology of graphite moderator structures. (B24, B25). 494092
- nondestructive testing**
Neutron testing of reactor graphite. (E42). 470995
- order-disorder transformations**
Phase transitions in potassium-intercalated graphite: KC₈. (B24). 490689
- oxidation**
Graphite oxidation by moisture. (B15, E33). 460619
In-pile steam oxidation of model HTGR fuel elements. (E33, B15). 466703
Oxidation effects on the tensile strength of ATJS graphite and vitreous carbon. (B24). 476377
- performance**
Structural performance of a graphite blanket in fusion reactors. (A14). 475156
- permeability**
Measurements of impurity migration in graphite at high temperatures using a proton microprobe. (C52, B24, E33; HTGR cores). 461294
- phase transformations**
Phase transitions in potassium-intercalated graphite: KC₈. (B24). 490689
- photon transport**
Penetration of 6 MeV gamma photons through aluminium, concrete and graphite. (A32). 481458
- physical radiation effects**
Annealing of neutron damage in graphite irradiated and stored at room temperature. (B24, B25; Neutron fluence 1.5, 5.5, and 15 MeV). 465705
The effect of substitutional boron on irradiation damage in highly oriented pyrolytic graphite irradiated at 60°C. (B24). 462931
Graphite radiation damage at temperatures up to 1900°C. (B25, A14). 487027
Influence of radiation damage on the diffraction of X-ray photoelectrons. (B25). 472739
Irradiation change of graphite properties in a wide range of temperatures and neutron fluences. (B25). 487054
On the effect of pulse laser radiation on materials in a wide range of helium pressure. (B22). 476324
On the variation of radiation dimensional stability of structural graphite. (B25). 465744
Radiation damage in ceramics for fusion reactor first-wall applications. (A14, B25). 459942
Relative radiation damage for graphite at neutron energies up to 15 MeV. (B25, A14). 487028
Residual stress, strain, and strength measurements in Peach Bottom fuel test elements. (E33, B25). 488107
Surface damage and sputtering of ATJ graphite as candidate armor plate material for TFTR under D⁺ bombardment. (A14, B25). [Data] 485687
- purification**
Removal of iron from impure graphites. (B24, B11). 486991
- pyrolysis**
Method of adding catalyst in gasification reaction of graphite. (B16). 472597
- radiation effects**
Erosion of graphite cloth under bombardment with 20 keV hydrogen and helium ions. (B25). 465723
- reactor materials**
Dispersion-type fuel and heat-absorbing elements based on graphite with pyrolytic carbon binder for high temperature gas cooled reactors. (B24, B25). 486997
- ruptures**
Forecasting of rupture strain of graphite tubes by acoustic emission. (B24). 472714
- shells**
Applications of the fundamental solution for a thermal shock on a finite orthotropic cylindrical thin shell. (E11). 491487
- specific heat**
Specific heat of exfoliated graphite in the temperature range between 5 and 20K. (A13). 471534
- spray coating**
Fabrication of thin-walled ceramic structures. (B23). 460775
- sputtering**
Measurements of sputtering yields for low-energy plasma ions. (A14). 475107
Surface damage and sputtering of ATJ graphite as candidate armor plate material for TFTR under D⁺ bombardment. (A14, B25). [Data] 485687

- stresses**
 Failure criteria for graphite. (B24). 490700
sublimation
 Sublimation phenomena in H451 graphite. (E33, B15). 488105
substrates
 CVD borides of the form (Ti, Zr)B₂ and (Ta, Ti)B₂. (B23). 479502
surface hardening
 CVD borides of the form (Ti, Zr)B₂ and (Ta, Ti)B₂. (B23). 479502
surfaces
 Diffraction of helium atoms by the basal (0001) face of graphite: a study of bound state resonances. (A13). 467369
tensile properties
 Oxidation effects on the tensile strength of ATJS graphite and vitreous carbon. (B24). 476377
thermal expansion
 The change in the ratio of thermal expansion coefficients of some nuclear graphites at elevated temperatures. (B24). 469400
thermal shock
 Resistance and fracture toughness against thermal shock of several varieties of graphite. (E17). [Data] 491701
ultrasonic testing
 Ultrasonic nondestructive testing for nuclear graphite. (E17). [Data] 491702
yield strength
 Modified Weibull theory for the strength of granular brittle material. (B24, E33). 486993
- GRAPHITE LOW-ENERGY EXPE. PILE:**
 See GLEEP REACTOR
GRAPHITE MODERATED REACTORS:
 See also AGR TYPE REACTORS; AVR REACTOR; BELOYARSK-I REACTOR; CHINON-I REACTOR; DRAGON REACTOR; DUNGENESS-B REACTOR; EGCR REACTOR; GCR TYPE REACTORS; GLEEP REACTOR; HINKLEY POINT-A REACTOR; HINKLEY POINT-B REACTOR; HTGR TYPE REACTORS; HUNTERSTON-B REACTOR; LENINGRAD-I REACTOR; LWGR TYPE REACTORS; N-REACTOR; PEACH BOTTOM-I REACTOR; SRE REACTOR; THTR-300 REACTOR; TREAT REACTOR; VRIN REACTOR
 Power reactors '78. (E30; Annual directory of data on the world's power reactors). 466647
GRAPHITE MODERATOR:
 See GRAPHITE
GRASS:
 See GRAMINEAE
GRAVIMETRIC ANALYSIS:
 See also THERMAL GRAVIMETRIC ANALYSIS
GRAVITATION:
 Configurations of degenerated masses according to the bimetric theory of gravitation. (A11, A15). 467121
 Gravitation in plane space. The equivalence principle for massive bodies of electromagnetic structure. (A11). 463896
 Large numbers, cosmic coincidences and gravity. (A15, A11). 467830
 Microscopic potential and macroscopic potential in gravitation theory. (A15). 475367
 Relativistic experiments in a gravitational field. (A11, A15). 485361
black holes
 Minicompact objects according to the bimetric theory of gravitation. (A15). 471802
chiral symmetry
 Dynamical affine symmetry and renormalizations in gravity. (A11). 477631
conservation laws
 Conservation laws in a generalized theory of gravitation. (A11). 474475
cosmological models
 Cosmological solution of Bianchi type I in a new theory of gravitation. (A15, A11). 489549
de sitter group
 Nonlinear de Sitter symmetry and restricted space-time regions in gravity and supergravity. (A11). 492389
doppler effect
 Frequency shift of radiation from spherical objects in Brans-Dicke theory of gravitation. (A11). 488544
elasticity
 On Sakharov's theory of gravitation. (A11). 488695
electromagnetism
 Gravitation and electromagnetism. (A11). 488539
equivalence principle
 Matter - what is it. (A20, A15, A11). 481346
field equations
 Friedman's problem in quadratic gravitation theory. (A11). 474450
fundamental constants
 Consequences of varying G. (A11). 459664
 Variation of constants. (A11, A21, A34; Review). 459666
gauge invariance
 Conformal gravity as a gauge theory. (A11). 485342
 Poincare gauge theory of gravitation and the binary pulsar 1913+16. (A11, A15). 488724
general relativity theory
 Gauge theories of gravitation. (A11, A21). 492497
 Gravitation theory and theory of elementary particles. (A11). 467136
group theory
 Gravitational theories generated by groups of transformation and Dirac's large number hypothesis. (A11). 459678
hamiltonians
 The Einstein-Cartan theory of gravitation in a Hamiltonian form. (A11). 467076
instantons
 Classification of gravitational instanton symmetries. (A11). 474452
 TP inversion in quantum gravity. (A11). 477668
- laplacian**
 New null experiment to test the inverse square law of gravitation. (A11). 485354
magnetic fields
 Gravitational magnetism. (A15). [Data] 471916
majorana theory
 A spin-3/2 theory of gravitation. (A11). 471207
poincare groups
 Poincare gauge theory of gravitation and the binary pulsar 1913+16. (A11, A15). 488724
quantum field theory
 Proof of the positive-action conjecture in quantum relativity. (A11). 474517
red shift
 Frequency shift of radiation from spherical objects in Brans-Dicke theory of gravitation. (A11). 488544
renormalization
 Dynamical affine symmetry and renormalisation in gravity. (A11). 488637
rotation
 Slow rotation in the bimetric theory of gravitation. (A15). 489483
space-time
 New theory of gravitation. (A11). 488678
supersymmetry
 Local supersymmetry and interactions. (A21, A11). 475517
symmetry breaking
 Broken-symmetric theory of gravity. (A11, A21). 463927
tensors
 a tensor theory of gravitation in a curved metric on a flat background. (A11). 488590
time dependence
 Does gravity vary with time. (A11). 462067
 The time-dependence of universal gravitational constant. (A11). 459660
torsion
 Propagating torsion and gravitation. (A11). 467067
ultraviolet divergences
 Dynamical affine symmetry and renormalisation in gravity. (A11). 488637
vacuum states
 Vacuum with spin in the ECSK-theory of gravitation. (A11). 474527
variational methods
 Lagrange multipliers and gravitational theory. (A11; Riemann space). 459668
variations
 Does gravity vary with time. (A11). 462067
 Theoretical isochrones in the case of stellar evolution with variable G (Brans-Dicke cosmological theory). (A15). 475332
 Time-varying gravity and the abundance of helium. (A15). 492864
 Varying G. (A15). 492869
weyl unified theory
 Conformal gravity as a gauge theory. (A11). 485342
yang-mills theory
 Covariant theory of gravitation using Yang-Mills fields. II. (A11). 459659
 Covariant theory of gravitation using Yang-Mills fields. I. (A11). 459658
- GRAVITATIONAL COLLAPSE:**
 Space, time, and gravity. The theory of the big bang and black holes. (A11, A15; Book). 467141
equations of state
 The role of equation of state in stellar collapse. (A15). 464611
equivalence principle
 Equivalence principle, gravitational collapse, and the classical particle problem. (A11). 462065
gamma radiation
 Neutron stars, black holes and gamma-ray bursts. (A15). 475416
general relativity theory
 Effect of the general relativity in the stellar collapse. (A15). 471908
limiting values
 On stellar collapse and the black hole limit from a dynamical view. (A11). 471295
mathematical manifolds
 The evolving, flowless drainhole: a nongravitating-particle model in general relativity theory. (A11). 471228
mathematical models
 An equation of state for warm neutron degenerate matter. (A15). 492936
neutrinos
 Neutrino flow and gravitational collapse. (A15). 475448
 Neutrino production and transport during gravitational collapse. (A15, A11, A21; Weak current-current correlation functions). 471771
shape
 Pressure stabilization of the shape instability. (A15). 481285
singularity
 On the way towards a nonsingular gravitational collapse - the properties of the Yang-Mills cosmos. (A15). 462426
thermal equilibrium
 Gravothermal catastrophe of finite amplitude. (A15). 471830
weak interactions
 Gravitational collapse and wear interaction. (A15). 471785
- GRAVITATIONAL FIELDS:**
 See also KERR FIELD
 Does gravitational radiation exist. (A11). 488714
 Nonlocal properties of fermionic matter in strong gravitational fields. (A11). 492434
 On geometrodynamics with tetrad fields. (A11). 480985

- angular momentum**
Momentum and angular momentum in the H-space of asymptotically flat, Einstein-Maxwell space-time. (A11). 471242
- axial symmetry**
Static and stationary axially symmetric fields of gravitation. I. (A11). 488566
Static and stationary axially symmetric gravitational fields of bounded sources. (A11). 463892
- blackbody radiation**
Black-body radiation and thermal equilibrium in a static gravitational field. (A11). 488579
- computer codes**
Gravity inversion code. (B31; SEARCH, TREND, INVERT, AVERAGE, for CDC computers). 476410
- coupling**
Linearization stability of couples gravitational and gauge fields. (A11; Space-time, Cauchy surfaces). 467006
- einstein field equations**
Baecklund transformations of axially symmetric stationary gravitational fields. (A11). 462087
Constraints, Hermiticity, and Correspondence. (A21, A11). 489826
Static and stationary axially symmetric fields of gravitation. I. (A11). 488566
Yet another formulation of the Einstein equations for stationary axisymmetry. (A11). 477606
- electromagnetic fields**
Static spherically symmetric solution for the field of a charged particle in a theory of gravity. (A11). 488677
- electromagnetic radiation**
Electromagnetic wave generation and propagation in gravitational fields. (A11, A21, A15; Differential cross sections, polarization, helicity and angular momentum coupling). 467031
- energy conservation**
On a new variational principle in general relativity and the energy of the gravitational field. (A11). 488648
- equations of motion**
Equations of motion for a class of space-time singularities. (A11). 474485
Non-Reiemann geometrizable effects in the gravitational one-body problem. (A11). 488715
- equivalence principle**
Gravitation in plane space. The equivalence principle for massive bodies of electromagnetic structure. (A11). 463896
- euclidean space**
Solutions to Euclidean gravity for infinitely many instantons. (A11). 488719
- field equations**
Higgs mechanism and the inverse Einstein-Infeld-Hoffman problem. (A11). 463908
Homogeneous cosmological models in Yang's gravitation theory. (A15). 462439
On group covariant physical laws and gravitation. (A11). 483043
On the exact solutions of Tomimatsu-Sato family for stationary axial-symmetric gravitational fields. (A11). 483047
Static spherically symmetric solution for the field of a charged particle in a theory of gravity. (A11). 488677
- gauge invariance**
The Becchi-Rouet-Stora transformation for the gravitational field. (A11). 467100
Implications of non-linear invariances for spinor theories in curved space-time. (A11). 477661
Noninternal gauge theories. (A11, A21; Group manifolds). 459693
- hamiltonians**
Hamiltonian formulation of the theory of interacting gravitational and electron fields. (A11). 463914
- heat flux**
Particle emission in the de Sitter universe for massless fields with spin. (A15). 462455
- instantons**
Solutions to Euclidean gravity for infinitely many instantons. (A11). 488719
- kerr metric**
Gravitational field of spinning mass: Kerr metric and Tomimatsu-Sato metric. (A15). 475398
- lagrangian function**
Higgs mechanism and the inverse Einstein-Infeld-Hoffman problem. (A11). 463908
- linear momentum**
Momentum and angular momentum in the H-space of asymptotically flat, Einstein-Maxwell space-time. (A11). 471242
- mach principle**
The equivalence principle according to Mach. (A11). 471211
- measuring methods**
Tests of gravitational theories using space probes. (A11). 485295
- motion**
Detection of relative motion in a gravitational field. (A11). 488577
- point charge**
Point charge in a static, spherically symmetric Brans-Dicke field. (A11). 488663
- proca equations**
Representation of the Einstein-Proca field by an $A_{\text{sup}}(*)$. (A11). 488563
- quantum field theory**
Point splitting in a curved space-time background. (A11). 488662
- quantum mechanics**
Quantum physics and gravitation: list of publications. (A11). 488535
- radiation flux**
Gravitational field of radiating charged systems: Petrov type II twist-free metrics. (A11). 474469
- renormalization**
Dynamical affine symmetry and renormalisation in gravity. (A11). 488637
- space-time**
New general relativity. (A11). 488625
On the gravitational analog of electromagnetic induction. (A11). 463879
- spinors**
Implications of non-linear invariances for spinor theories in curved space-time. (A11). 477661
- stability**
Linearization stability of couples gravitational and gauge fields. (A11; Space-time, Cauchy surfaces). 467006
- thermal equilibrium**
Black-body radiation and thermal equilibrium in a static gravitational field. (A11). 488579
- torsion**
Birkhoff theorem for an $R + R^2$ theory of gravity with torsion. (A11). 485357
Hojman-Rosenbaum-Ryan-Shepley torsion theory and Eotvoes-Dicke-Braginsky experiments. (A15, A11). 485912
- ultraviolet divergences**
Dynamical affine symmetry and renormalisation in gravity. (A11). 488637
- yang-mills theory**
Microscopic gravity as a Yang-Mills field. (A11). 474505
- GRAVITATIONAL INTERACTIONS:**
Two-body gravodynamics. (A11). 477630
- anomalous dimension**
Renormalisation of the gravitational trace anomaly in QED. (A11). 477612
- charged particles**
Conversion of gravitational waves into electromagnetic waves by a moving charge. (A15). 464655
- composite models**
An attempt at pregeometry. (A21). 481347
- general relativity theory**
Predictive relativistic mechanics of gravitating masses. (A11). 471303
- gravitational radiation**
Relativistic Kepler problem. I. Behavior in the distant past of orbits with gravitational radiation damping. (A11). 488737
- lagrangian function**
An attempt at pregeometry. (A21). 481347
- neutron beams**
Matter and light wave interferometry in gravitational fields. (A31). 472115
- quantum electrodynamics**
Renormalisation of the gravitational trace anomaly in QED. (A11). 477612
- unified gauge models**
Gauge unification of basic forces, particularly of gravitation with strong interactions. (A21, A11; Spin-1 and -2 quanta, Einstein-Weyl structures, tetrahedral interrelation). 472046
Multi-dimensional unified theory. (A21). 493076
Unification of all elementary-particle forces including gravity. (A21). 468143
- GRAVITATIONAL RADIATION:**
See also GRAVITONS
Does gravitational radiation exist. (A11). 488714
Theory of cosimical coherent avalanche catastrophies. (A15). 467736
- energy spectra**
Frequency spectrum of gravitational bremsstrahlung. (A11; Symmetries). [Data] 477571
Spectrum of radiation at low frequencies. (A15). 478213
- invariance principles**
Invariants of curvature tensor and gravitational radiation in general relativity. (A11). 467000
- mathematics**
The slow-motion approximation in radiation problems. (A11). 483008
- pulsars**
Progress report on the binary pulsar 1913+16. (A15). 489490
- radiation detection**
Detection of gravitational radiation by the Doppler tracking of spacecraft. (A15). 464622
- ricci tensor**
Invariants of curvature tensor and gravitational radiation in general relativity. (A11). 467000
- supernovae**
Gravitational radiation from: I. Two-body systems; II. Slowly rotating supernovae. (A15; Radiation potential). 485933
- two-body problem**
Gravitational radiation from: I. Two-body systems; II. Slowly rotating supernovae. (A15; Radiation potential). 485933
- GRAVITATIONAL WAVE DETECTORS:**
Quadrupole mass detector in the field of weak plane gravitational waves. (A11). 463881
- antennas**
Quantum limits on resonant-mass gravitational-radiation detectors. (A15). 478262
- ion beams**
Electromagnetic wave generation and propagation in gravitational fields. (A11, A21, A15; Differential cross sections, polarization, helicity and angular momentum coupling). 467031
- noise**
Noise measurements of an aluminum gravitational radiation antenna at 5 to 9 Kelvin. (A15; Fluctuation temperature, probability density, autocorrelation). 467798
- quantum mechanics**
Quantum nondemolition and gravity-wave detection. (A15, A11). 489648

- sensitivity**
 Detection of relative motion in a gravitational field. (A11). 488577
 Gravitational-wave detectors of increased sensitivity. (E41). 477348
 Quantum limits on resonant-mass gravitational-radiation detectors. (A15). 478262
 Theoretical study of magnetic pick-up transducers for gravitational wave antennas. (A15). 489606
 Tunable "free-mass" gravitational-wave detector. (A15). 485937
- superconducting devices**
 Fabrication and properties of rf niobium-on-sapphire superconducting resonators. (E12, A15). 470313
 Superconducting accelerometer using niobium-on-sapphire rf resonator. (E12, A15). 470312
- transducers**
 Theoretical study of magnetic pick-up transducers for gravitational wave antennas. (A15). 489606
- GRAVITATIONAL WAVES:**
- conformal invariance**
 Role of conformal (non) invariance in graviton production by cosmological background. (A15, A11). 475282
- de sitter group**
 Generation of exact solutions to the Einstein field equations for homogeneous space-time. (A11). 463893
- electromagnetic interactions**
 Conversion of gravitational waves into electromagnetic waves by a moving charge. (A15). 464655
- general relativity theory**
 On the energy of gravitational waves in the Einstein gravitation theory. (A11). 485376
- interactions**
 Effects of a gravitational wave on relativistic particles. (A11). 488597
 Interaction of plane electromagnetic-gravitational waves. (A11). 463917
- kinetics**
 Electromagnetic wave generation and propagation in gravitational fields. (A11, A21, A15; Differential cross sections, polarization, helicity and angular momentum coupling). 467031
 Generation of gravitational waves. (A11). 459685
- landau damping**
 Possibility of Landau damping of gravitational waves. (A15, A11). 475270
- scattering**
 Electromagnetic wave generation and propagation in gravitational fields. (A11, A21, A15; Differential cross sections, polarization, helicity and angular momentum coupling). 467031
- solitons**
 On the development of packets of surface gravity waves moving over an uneven bottom. (A11). 483017
- wave propagation**
 On the development of packets of surface gravity waves moving over an uneven bottom. (A11). 483017
- GRAVITONS:**
 Theory of cosmical coherent avalanche catastrophies. (A15). 467736
- composite models**
 Composite model of the graviton. (A21, A11). 468092
- cosmological models**
 Role of conformal (non) invariance in graviton production by cosmological background. (A15, A11). 475282
- geometry**
 Polygons and gravitons. (A11). 474462
- infrared divergences**
 Infrared gravitons in a ghost-free axial gauge. (A11). 488669
- interactions**
 The nonlinear graviton in interaction with a photon. (A11). 480980
- particle production**
 Role of conformal (non) invariance in graviton production by cosmological background. (A15, A11). 475282
- photons**
 The nonlinear graviton in interaction with a photon. (A11). 480980
- propagator**
 Center of inertia and coordinate transformations in the post-Newtonian charged n-body problem in gravitation. (A11). 488545
- quantum gravity**
 Energy correlation formula applied to psi particles. (A11). 482984
- GRAVITY WAVES:**
- attenuation**
 Incoherent scatter investigation of the properties of internal gravity waves in the ionospheric F-region. (B33). [Data] 479703
- f region**
 Incoherent scatter investigation of the properties of internal gravity waves in the ionospheric F-region. (B33). [Data] 479703
- GREASES:**
- chemical reactions**
 uv/ozone cleaning of surfaces. (B12, B11). 486675
- photolysis**
 uv/ozone cleaning of surfaces. (B12, B11). 486675
- GREAT BRITAIN:**
 See UNITED KINGDOM
- GREAT LAKES:**
 See also LAKE ERIE; LAKE HURON; LAKE MICHIGAN
- air pollution**
 Airborne ammonia measurements in the Great Lakes Region. (C52). 480099
- GREECE:**
- aquifers**
 Study of the Kalamos Springs in Greece with environmental isotopes. (B31, B32). 465786
- metamorphic rocks**
 Isotopic age relations within the polymetamorphic complex of the island of Naxos (Cyclades, Greece). (B31). 460824
- GREEN FUNCTION:**
- coupling constants**
 Analytical properties of the Green functions in the coupling constant in the exactly soluble model of a field theory. (A11). 467080
- energy levels**
 One-particle Green's function with multiconfiguration reference states. (A12; Superoperator hermicity). 463938
- harmonic potential**
 Calculation of Green function for simple physical systems by the Sturm-Liouville-like expansion method. (A11). 471208
- morse potential**
 Calculation of Green function for simple physical systems by the Sturm-Liouville-like expansion method. (A11). 471208
- numerical solution**
 A numerical method for calculating Green's functions. (F51). 462052
 The numerical solution of boundary value problems over an infinite domain. (F51). 462053
- GREENHOUSES:**
 See BUILDINGS
- GREENLAND:**
- igneous rocks**
 Strontium, lead and oxygen isotopic investigation of the Skaergard intrusion, East Greenland. (B31). 460856
- isotope dating**
 Holocene stratigraphy and vegetation history in the Scoresby Sund area, East Greenland. (B31; Carbon 14 dates). 462964
- metamorphic rocks**
 Strontium geochemistry and carbon and oxygen isotopic compositions of Lower Proterozoic dolomite and calcite marbles from the Marmorilik Formation, West Greenland. (B31). 484343
- radioactivity**
 Environmental radioactivity in Greenland 1977. (B32, B33, C22). 462976
- GREIFSWALD-1 REACTOR:**
- organizational models**
 Organization and control of shift work in the Nord - "Bruno Leuschner" nuclear power plant. (E32). 463635
- GREIFSWALD-2 REACTOR:**
- in-service inspection**
 The 1978 first in-service inspection of the reactor pressure vessel of the second unit of the Greifswald nuclear power plant. (E32). 482764
- organizational models**
 Organization and control of shift work in the Nord - "Bruno Leuschner" nuclear power plant. (E32). 463635
- pressure vessels**
 The 1978 first in-service inspection of the reactor pressure vessel of the second unit of the Greifswald nuclear power plant. (E32). 482764
- GRENOBLE REACTOR:**
- research programs**
 ILL. Annex to the annual report 1976. (F61). 471189
 ILL. Annual report 1976. (F61). 463853
 ILL. Annual report 1977. (F61). 463852
 ILL. annex to the annual report 1977. (F26). 485219
- GRIDS:**
- configuration**
 Optimum geometry for strip cathodes or grids in MWPC for avalanche localization along the anode wires. (E41). 492091
- optimization**
 Optimum geometry for strip cathodes or grids in MWPC for avalanche localization along the anode wires. (E41). 492091
- GRINDING:**
 (For grinding in the sense of pulverizing, use CRUSHING.)
- optimization**
 Quantitative control and optimization of grinding and polishing processes. (B23). 486957
- GROHNDE REACTOR:**
- construction permits**
 Publication concerning the 2nd partial licence for the Grohnde reactor and concerning the order for the immediate enforceability of the 2nd partial licence for the Grohnde reactor. (E32). 494954
- GROUND DISPOSAL:**
 See UNDERGROUND DISPOSAL
- GROUND MOTION:**
- amplitudes**
 Estimation on three dimensional earthquake ground motions for aseismic design input for nuclear power plants, (2). (C52). [Data] 491157
- attenuation**
 Regionalization of ground motion attenuation in the conterminous United States. (C52). [Data] 494401
- forecasting**
 Seismic and geologic investigations of the Sandia Livermore Laboratory site. (B31). 472795
- mathematical models**
 Gas Centrifuge Enrichment Plant seismic time history development. (D11). [Data] 491383
- measuring instruments**
 Measurement system for large motions. (E14, E42). 487863
- mechanical structures**
 Response spectrum analysis of coupled structural response to a three component seismic disturbance. (C52). 461179

- rayleigh waves**
Shear stress distribution due to shear and Rayleigh wave propagation at deep soil sites. (C52). 461220
- response functions**
Effective duration of seismic acceleration and occurrence of maximum responses. (C52). 461321
- rotation**
Base response arising from free-field motions. (C52). 461325
- simulation**
Automated generation of spectrum compatible artificial time histories. (C52). 461239
Simulated earthquake ground motions. (C52, F51). 461318
- soil mechanics**
Shear stress distribution due to shear and Rayleigh wave propagation at deep soil sites. (C52). 461220
Strong ground motion spectra for layered media. (C52). 461170
- torsion**
Seismic response analysis of nuclear reactor buildings under consideration of soil-structure interaction with torsional behaviour. (C52, E31). 461252
- GROUND STATES:**
- atom-atom collisions**
Observation of the orbiting backward peak in the differential cross section for Na(²P)-Hg collisions. (A12). 488793
- electron density**
Lower and upper bounds to the decay of the ground state one-electron density of helium-like systems. (A12). 488829
- equilibrium**
Rates and equilibria for thermal production of electronically excited states. (A12). 485497
- hamiltonians**
A class of lower bounds for Hamiltonian operators. (A11). 462063
Diagonalisation of the quadratic fermion Hamiltonian with a linear part. (A11). 462070
- harmonic oscillators**
Ambiguities about infinite nuclear matter. (A33). 481480
- magnetic properties**
Magnetic properties of singlet ground state systems. (A12). 459724
- mercury**
Observation of the orbiting backward peak in the differential cross section for Na(²P)-Hg collisions. (A12). 488793
- nuclear decay**
Lower and upper bounds to the decay of the ground state one-electron density of helium-like systems. (A12). 488829
- nuclear matter**
Nuclear matter theory revisited. (A33). 472178
- reaction kinetics**
Reactions of the excited states of substituted polypyridinechromium(III) complexes with oxygen, iron(II) ions, ruthenium(II) and -(III), and osmium(II) and -(III) complexes. (B12). 460446
- spectral shift**
Isotope shift between the ground level of ²⁰Ne and ²²Ne. (A12). [Data] 481054
- GROUND WATER:**
- activation analysis**
Determination of bismuth in underground water by activation analysis. (D22). 491433
The determination of manganese in seawater, surface water and rainwater by neutron activation analysis. (B11). [Data] 460432
Groundwater tracing with post-sampling activation analysis using bromide and iodide ions injected simultaneously into a shallow-well system. Master's thesis. (B31, B11). 469516
- chemical analysis**
Application of an inductively coupled plasma/direct reading polychromator to the multi-element analysis of natural waters. (B31, B11). 472822
- chemical composition**
Dyersburg 1° x 2° NTMS area, Kentucky, Missouri, Tennessee, and Illinois: data release. Hydrogeochemical and stream sediment reconnaissance. (B31). [Data] 487096
Hydrogeochemical and stream sediment reconnaissance basic data for Clinton NTMS Quadrangle, Oklahoma. (B31). [Data] 487113
Hydrogeochemical and stream sediment reconnaissance basic data for Wichita NTMS Quadrangle, Kansas. (B31). [Data] 487111
Hydrogeochemical and stream sediment reconnaissance basic data for St. Cloud NTMS Quadrangle, Minnesota. (B31). [Data] 487112
Hydrogeochemical and stream sediment reconnaissance raw data report for Sandpoint NTMS quadrangle, Washington, Idaho, and Montana. (B31). [Data] 487067
Hydrogeochemical and stream sediment reconnaissance basic data report for Williams NTMS quadrangle, Arizona. (B31). [Data] 487124
Hydrogeochemical and stream sediment reconnaissance basic data for Pratt NTMS Quadrangle, Kansas. (B31). [Data] 490805
Knoxville 1° x 2° NTMS area, North Carolina, South Carolina, and Tennessee: data release. Hydrogeochemical and stream sediment reconnaissance. (B31). [Data] 490761
- chlorine**
Determination of Na and Cl in mineral water samples by on-stream activation analysis. (B11). 462641
- contamination**
Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities. (C21, B33, B31, B32, C52; Conversion factors are given for dose rates to 21 organs from 240 different radionuclides for 3 different modes of exposure). 466207
Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
In-situ measurements of soil-water conductivity. (B31, B32). [Data] 479626
Single-pass leaching of nuclear melt glass by groundwater, Part I. (E52, E14, C52). [Data] 474240
- decontamination**
Reducing radioactive contamination by sorption on impregnated water works sand. (B32). 484384
- environment**
In-situ measurements of soil-water conductivity. (B31, B32). [Data] 479626
Tracing underground water movement using three NAA-detected halogen tracers. (B32). 472852
- flow models**
Groundwater flow due to topographical and geological effects. (B31, E52). [Data] 460869
Three dimensional model of groundwater flow governed by topography. (B31, E52). [Data] 460870
- flow rate**
Single-borehole techniques. Present status and examples of recent applications. (B32). [Data] 460891
- fluid flow**
Method and apparatus for measuring underground fluid flow characteristics. (B31). 494207
Summary of exploration drilling in F area for hydrogeologic information. (B31). 479638
Verification studies of GWHEAD, a computer code for determining the ground water heat with three-dimensional flow. (B31). [Data] 479636
- gases**
Gases in groundwater. (B11). 481650
- helium**
Gases in groundwater. (B11). 481650
- helium 4**
Inert gases in groundwater from the Bunter Sandstone of England as indicators of age and palaeoclimatic trends. (B31, B32). 484330
- hydrology**
Argon-39, carbon-14 and krypton-85 measurements in groundwater samples. (B32). [Data] 462994
Development of a quasi three-dimensional groundwater model for a portion of the Nevada Test Site. (B31, B32; THESIS, in FORTRAN for CDC 6400). 465785
Groundwater tracing with post-sampling activation analysis using bromide and iodide ions injected simultaneously into a shallow-well system. Master's thesis. (B31, B11). 469516
Numerical simulation of material transport in a regional groundwater flow system. (B31, B32, C52). 479632
Soil water flow model with two-dimensional automatic gamma ray attenuation scanner. (B31, D22). 465757
- isotope dating**
Carbon-14 measurements in aquifers with methane. (B32). [Data] 462980
Hydrodynamic aspects of carbon-14 groundwater dating. (B32). [Data] 462991
Krypton-85 dating of groundwater. (B32). [Data] 463003
Rare gas isotopes in the hydrogeology. (B32, B11; ⁴He, ²⁰Ne, ²¹Ne, ²²Ne, ³⁶Ar, ³⁸Ar, ⁴⁰Ar). 487133
Some problems in the interpretation of isotope measurements in United Kingdom aquifers. (B32). [Data] 462988
Uranium isotope disequilibrium in groundwaters of southeastern New Mexico and implications regarding age-dating of waters. (B32). [Data] 462982
- isotope ratio**
Application of environmental isotope variations to a groundwater study in Ecuador. (B32). 484376
Environmental isotopes in a study of the origin of salinity of groundwater in the Mexicali Valley. (B32). 484377
- microtrons**
On calculation of the ground water induced activity level under the building of the 30 MeV electron accelerator. (B32, C52). 494225
- monitoring**
Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). [Data] 479676
- natural radioactivity**
Cytogenetic investigation of people in Finland using household water with high natural radioactivity. (C21, B32, C15). 487310
Geologic studies to identify the source for high levels of radium and barium in illinois ground-water supplies: a preliminary report. Final report. (B32, C52). 487131
- pollution**
Earth Sciences. (B31). 479644
Other impacts. (C52, B32, C21). [Data] 494387
- radiation doses**
On calculation of the ground water induced activity level under the building of the 30 MeV electron accelerator. (B32, C52). 494225
- radiation monitoring**
Environmental monitoring at the Savannah River Plant. Annual report, 1977. (B33, B31, B32, C52). [Data] 479676
- radioactive tracer logging**
Groundwater recharge studies in Maharashtra. Development of isotope techniques and field experience. (B32). [Data] 463001
- radioactive waste disposal**
Local groundwater depression around a repository. (B31, E52). [Data] 460872
- radioactivity**
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
Chemical and radiochemical character of a low-level radioactive waste burial site. (E52, B32). 474259
Environmental monitoring report for Pantex Plant covering 1978.

- (B33, C22, B32, C52, C21). [Data] 487136
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
Radiological status of the ground-water beneath the Hanford Project, January - December 1978. (B32, C52; Monitoring of total beta sources, tritium, and nitrate). [Data] 487132
- radionuclide migration**
Aspects of nuclear waste management. Volume 2: post-emplacment hazards. (E52, C54, B32). 495227
Calculated radionuclide migration from a geologic high level waste repository. (E52, C52, B32). 461966
Chemical and radiochemical character of a low-level radioactive waste burial site. (E52, B32). 474259
Geohydrologic study of a burial site for solid low-level radioactive wastes at the Idaho National Engineering Laboratory. (E52, B32, B31). 474232
Ground-water hydrology and subsurface migration of radioisotopes at a low-level solid radioactive-waste disposal site, West Valley, New York. (E52, B32, B31). 474276
Hydrologic transport of radionuclides from low-level waste burial grounds. (E52, B32, C54). 474247
Laboratory studies of radionuclide distributions between selected groundwaters and geologic media. Progress report, January 1 - March 31, 1979. (E52, B32, C52). 492246
Laboratory studies of radionuclide distributions between selected ground waters and geologic media. Progress report, October 1 - December 31, 1978. (B32, B31). [Data] 472851
Migration of radionuclide chains in groundwater. (B32, E52, A34). 460895
NRC models for evaluating the transport of radionuclides in groundwater. (E52, B32). 474239
Radionuclide migration from low-level waste: a generic overview. (E52, B32). 474281
Radionuclide transport model for shallow land burial sites. (E52, B31, C54). 474292
Risk methodology for geologic disposal of radioactive waste: interim report. (E52, C52, B32). 461943
Single-pass leaching of nuclear melt glass by groundwater, Part I. (E52, E14, C52). [Data] 474240
Water problems at the West Valley burial site. (E52, B31, B32). 474260
- radon**
Gases in groundwater. (B11). 481650
- radon 222**
Inert gases in groundwater from the Bunter Sandstone of England as indicators of age and palaeoclimatic trends. (B31, B32). 484330
- sodium**
Determination of Na and Cl in mineral water samples by on-stream activation analysis. (B11). 462641
- water chemistry**
Investigation of the chemical identity of soluble organophosphorus compounds found in natural waters. Research report. (B11). 478843
Study of the Kalamos Springs in Greece with environmental isotopes. (B31, B32). 465786
- water pollution**
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
Geologic studies to identify the source for high levels of radium and barium in illinois ground-water supplies: a preliminary report. Final report. (B32, C52). 487131
Radiological status of the ground-water beneath the Hanford Project, January - December 1978. (B32, C52; Monitoring of total beta sources, tritium, and nitrate). [Data] 487132
- GROUNDNUTS:**
See PEANUTS
- GROUP CONSTANTS:**
comparative evaluations
Study of the relative merits of various computational models of evaluating resonance J(THETA, β) function. (E21). 482659
fission products
Adjusted capture cross sections of fission-product nuclides from STEK reactivity worths and CFRMF activation data. (E21). [Data] 470491
Tables and figures of adjusted and unadjusted capture group cross sections based on the RCN-2 evaluation and integral measurements in STEK. (E21). [Data] 470490
legendre polynomials
Evaluation and compilation of a Legendre coefficient library. (E21). 482664
- n codes**
Program for shaping neutron microconstants for calculations by means of the Monte-Carlo method on the base of estimated data files (NEDAM). (F51). 485253
- neutron leakage**
Epithermal few-group cross-sections for a unit cell with neutron leakage. (E21, A31). 470494
- nuclear data collections**
Program for shaping neutron microconstants for calculations by means of the Monte-Carlo method on the base of estimated data files (NEDAM). (F51). 485253
- GROUP THEORY:**
(For mathematical groups only; for neutron-energy groups use MULTIGROUP THEORY.)
algebra
Algebraic conditions for a function on an Abelian group. (A11). 477625
- clebsch-gordan coefficients**
Coefficients of Clebsch-Gordan for the holomorphic discrete series. (A11). 488622
- correlation functions**
On N-completeness of symmetrised geminal expansions. (A12). 477770
- energy spectra**
Extremal invariant states with a spectrum condition and Borchers theorem. (A11). 488649
- equations of motion**
On the classification of Yang Mills fields. (A11). 477642
- irreducible representations**
Generating functions for characters of group representations and their applications. (F51). 485245
On the type and the standardform of induced UA representations. (A11). 477590
Quantum systems and symmetric spaces. (A11). 474496
- lorentz transformations**
On the classification of Yang Mills fields. (A11). 477642
- nonunitary representations**
On the type and the standardform of induced UA representations. (A11). 477590
- renormalization**
A renormalization group with periodic behaviour. (A11). 471206
Renormalization group equation for composite fields. (A11). 462077
- GROUPS (SPACE):**
See SPACE GROUPS
- GROWTH:**
See also ANIMAL GROWTH; PLANT GROWTH
biological radiation effects
Radiation-induced DNA damage in V79 spheroids and monolayers. (C11, C31; γ rays; cultured Chinese hamster (V79) cells). 476502
radiosensitivity
Growth kinetics and regression of pulmonary cancer as an indicator of neoplastic radiosensitivity. (C15). 479886
- GROWTH (CRYSTAL):**
See CRYSTAL GROWTH
- GROWTH HORMONE:**
See 5TH
- GS PROCESS:**
See DUAL TEMPERATURE PROCESS
- GSD:**
See GENETICALLY SIGNIFICANT DOSE
- GUANINE:**
binding energy
Charge-migration phenomena in γ -irradiated costacking complexes of DNA nucleotides. II. An ESR study of various complexes in frozen solution. (C11, B14). [Data] 479748
- GUANOSINE:**
acetophenone
The triplet-state charge-transfer reaction between p-nitroacetophenone and guanosine monophosphate. (C11). [Data] 463058
phosphoric acid esters
A method for measuring relative changes in guanosine 3':5'cyclic monophosphate in mouse neuroblastoma cells on muscarinic cholinergic stimulation. (C31). 463270
- GUIDELINES:**
See RECOMMENDATIONS
- GUIDING-CENTER APPROXIMATION:**
analytical solution
Guiding center drift equations. (A14). 464270
- GUINEA PIGS:**
post-irradiation therapy
Changes in guinea-pig blood serotonin contents after sublethal total-body irradiation and postradiation therapy. (C14). 487229
serotonin
Changes in guinea-pig blood serotonin contents after sublethal total-body irradiation and postradiation therapy. (C14). 487229
- GULF GENERAL ATOM. FAST BREED.:**
See GCFR REACTOR
- GULF OF MEXICO:**
geology
Earth Sciences. (B31). 479644
radium 226
Temporal variation of ^{226}Ra in the near-surface Gulf of Mexico. (B32). 484381
radium 228
Temporal variation of ^{228}Ra in the near-surface Gulf of Mexico. (B32). 484381
- GUN COTTON:**
See NITROCELLULOSE
- GUNDEMMINGEN-1 REACTOR:**
See RWE-BAYERNWERK REACTOR
- GUNDEMMINGEN-2 REACTOR:**
fuel pellets
KWU plutonium recycle fuel and core design, performance, and experience. (F12, E31, E32). 474346
plutonium recycle
KWU plutonium recycle fuel and core design, performance, and experience. (F12, E31, E32). 474346
- GUNS:**
exploding wires
Electric gun: a new tool for ultrahigh-pressure research. (E17). 491703
- GUNS (ELECTRON):**
See ELECTRON GUNS
- GUNS (PLASMA):**
See PLASMA GUNS

GYPSUM:

- decontamination**
Process for reducing radioactive contamination in waste product gypsum. (B13; Patent). 479098
- shielding materials**
Attenuation characteristics of gypsum wallboard. (C54, A32). 491218
Use of gypsum wallboard for diagnostic X-ray protective barriers. (C54). 491220
- sulfur 32**
Source of sulphur in the Ebro Basin (Northern Spain). Tertiary nonmarine evaporite deposits as evidenced by sulphur isotopes. (B31). 469477
- GYPSUM CEMENTS:**
- binders**
Yttria hydroxy-salt binders. (B24). 460799
- GYROSCOPES:**
- precession**
Parallel transport of a vector along a circular orbit in Schwarzschild space-time. (A11). 485362
- H CODES:**
Users Report of HIP-TEDDI. A two dimensional, four group code for the calculation of the neutron fluence in experiment positions and operating data of the materials testing reactor HFR at Petten. (E21). 473771
- H-ALPHA LINE:**
See *BALMER LINES*
- H-BETA LINE:**
See *BALMER LINES*
- H-GAMMA LINE:**
See *BALMER LINES*
- HAAG-ARAKI FIELD THEORY:**
See *ALGEBRAIC FIELD THEORY*
- HADDAM NECK REACTOR:**
See *CONNECTICUT YANKEE REACTOR*
- HADRON REACTIONS:**
See also *ANTINUCLEON REACTIONS; ANTIPROTON REACTIONS; FAST FISSION; KAON MINUS REACTIONS; KAON NEUTRAL REACTIONS; KAON PLUS REACTIONS; KAON REACTIONS; MESON REACTIONS; NEUTRON REACTIONS; NUCLEON REACTIONS; PION MINUS REACTIONS; PION PLUS REACTIONS; PION REACTIONS; PROTON REACTIONS; THERMAL FISSION*
Characteristics of leading nucleons in hadron-nucleus interactions and neutron and proton fluxes at mountain altitudes. (A15, A34). 492896
- angular distribution**
On the possibility of universal description of angular distribution in interactions of hadrons with nuclei. (A22, A34). [Data] 472079
- backscattering**
On the mechanism of fast proton backward emission in hadron-nucleus interaction at mean and high energies. (A33). 481497
- cumulative radiation effects**
Multibaryon interactions at relativistic energies. (A21, A33). 475522
- elastic scattering**
High energy hadron - nucleus collisions. (A21; AKG cutting rules). 489841
- fireball model**
Hadron interactions of cosmic radiation with energy higher than 10¹⁵ eV. Part II (Brazil-Japan collaboration). (A15). 471758
- glauber theory**
Relation between the Glauber model and classical probability calculus. (A21, A33). 471976
- inelastic scattering**
The study of giant resonances in nuclei by inelastic scattering. (A33). 468402
- multiple production**
Hadron interactions of cosmic radiation with energy higher than 10¹⁵ eV. Part I (Brazil-Japan collaboration). (A15). 471757
Hadron interactions of cosmic radiation with energy higher than 10¹⁵ eV. Part II (Brazil-Japan collaboration). (A15). 471758
Inclusive processes on nuclei for high energies. (A21, A33). 468062
Particle production in hadron - nucleus collisions above 10 GeV. (A22, A33; Review). 468172
- multiplicity**
Characteristics of slow particles in hadron-nucleus interactions and their relation to the models of high-energy interactions. (A22, A34). [Data] 493100
General properties of hadron-nucleus reaction multiplicities. (A21). [Data] 493041
- nuclear emulsions**
Hadron-nucleus reactions at high energies. (A22). 478560
Heavy ion and hadron reactions in emulsion. (A22). 478561
- nuclei**
Characteristics of slow particles in hadron-nucleus interactions and their relation to the models of high-energy interactions. (A22, A34). [Data] 493100
Effects of nucleon-nucleon correlations in the multiplicity distributions of particles produced in hadron-nucleus collisions. (A21, A33). [Data] 471978
On the possibility of universal description of angular distribution in interactions of hadrons with nuclei. (A22, A34). [Data] 472079
Relation between the Glauber model and classical probability calculus. (A21, A33). 471976
- particle production**
Effects of nucleon-nucleon correlations in the multiplicity distributions of particles produced in hadron-nucleus collisions. (A21, A33). [Data] 471978
On the small and large $p_{\text{sub}}(\text{perpendicular})$ behavior of hadronic processes. A new wave-particle duality. (A11). 480983
Some 10 - 100 TeV events. (E41, A15, A21). 492089
- relativistic range**
Multibaryon interactions at relativistic energies. (A21, A33). 475522
- research programs**
High energy physics studies of particle interactions in heavy elements. Annual progress report, May 15, 1977 - May 14, 1978. (A22; Summaries of research activities at Univ. of Washington). 486146
- tev range 10-100**
On the possibility of determination of the energy dependence of the hadron-nucleus cross section and multiplicity within the framework of the breaking scaling model at X approximately < 0.1. (A21, A33). 464811
- total cross sections**
Hadron-nuclear collisions for asymptotically high energies in the complex momenta theory with $\alpha_{\text{sub}}(p)_{\text{sup}}(0) > 1$. (A21, A33). 468072
Particle production in hadron - nucleus collisions above 10 GeV. (A22, A33; Review). 468172
- HADRON-HADRON INTERACTIONS:**
See also more specific entries as listed in the *INIS Thesaurus*.
Hadron induced lepton production. (A22). 493104
Hadronic charm production in QCD. (A21). 478418
Perturbation theory and the parton model in QCD. (A21, A11). 483636
Report of the Hadron Experiments Group. (A22; Experiments on 20-TeV proton accelerator). 472077
- angular correlation**
Study of the symmetries and properties of the particle-particle angular correlations. (A21). 472050
- bremstrahlung**
Comments on the bremsstrahlung model of Brodsky and Gunion. (A21). 489763
- cluster emission model**
Charge transfer in the uncorrelated cluster production model. (A21). 486065
A field theoretic cluster model of multiperipheral production. (A21). 475573
- color model**
Colour effects in Drell-Yan process. (A21). 468120
- correlations**
Correlations in hadron collisions at high transverse momentum. (A21; Quark model). 475558
- cross sections**
Asymptotic QCD perturbation theory and transverse momentum distributions in Drell-Yan processes. (A21). [Data] 489853
Colour effects in Drell-Yan process. (A21). 468120
Hadron-hadron collisions at large transverse momenta in the new type of quark cascade model. 2. (A21). [Data] 481371
- diffraction models**
Hadrons and quarks in high energy collisions. (A22, A21). 464916
- elastic scattering**
Determination of the weak neutral couplings to hadrons from inclusive, semi-inclusive, and elastic reactions. (A21). [Data] 464842
High energy hadron-hadron collisions. Annual progress report. (A21; Summaries of research activities at the Univ. of Georgia). 475544
High-P/sub T/ theory in a spin. (A21, A11). 489882
Reggeon field theory and the crossover phenomenon. (A21, A11). 489850
Spin measurements in hadronic high momentum transfer scattering. (A22). 489984
Valence - core exchange model. (A21). 460177
- exclusive interactions**
Exclusive processes and the exclusive-inclusive connection in quantum chromodynamics. (A21, A11). 478413
- gluon model**
Application of quark-gluon model in strong interactions. (A21). 471985
- hard collision models**
Effect of parton transverse momenta on hadronic large $p_{\text{sub}}(t)$ phenomena. (A21). [Data] 481390
- hydrodynamic model**
Hydrodynamical models of hadronic interactions. (A21). 478452
- inclusive interactions**
Are quarks Dirac particles. (A21; Scaling properties, perturbative quantum chromodynamics, infrared structure, cross sections). 460208
Determination of the weak neutral couplings to hadrons from inclusive, semi-inclusive, and elastic reactions. (A21). [Data] 464842
Exclusive processes and the exclusive-inclusive connection in quantum chromodynamics. (A21, A11). 478413
High-P/sub T/ theory in a spin. (A21, A11). 489882
Quark-parton model from dual topological unitarization. (A11, A21). 488574
Resonant production of high-transverse-momentum back-to-back gluon jets in pp collisions. (A21; 27 GeV, cross sections, transverse momentum, angular distribution, proposed experiment). 478401
Review of the theory and phenomenology of lepton pair production. (A21, A22; Review Drell-Yan mechanism, parton distribution, gluon radiation, quantum chromodynamics, transverse momentum). 464805
Spin measurements in hadronic high momentum transfer scattering. (A22). 489984
- inelastic scattering**
Implications of the Glauber model for inelastic hadron-nucleus scattering. (A21). 475587

- interaction range**
Quantum chromodynamics and the dynamics of hadrons. (A21, A11; Review, bound state, perturbation theory). 478412
- jet model**
Applications of QCD to the production of mesons and jets in hadron-hadron collisions. (A21). 471996
- linear momentum transfer**
Experimental tests of the quark model. (A22). 460241
- mesons**
Applications of QCD to the production of mesons and jets in hadron-hadron collisions. (A21). 471996
- missing mass**
Hydrodynamical description of the missing-mass clusters. (A21). 486054
- multiple production**
Hadron-hadron reactions, high multiplicity. (A22; Review). 472076
Rapidity correlations of $K^0/\text{sub } S/K^0/\text{sub } S/\text{ pairs}$ and the compensation of strangeness on the quark level in multiparticle production. (A21). 464837
- multiplicity**
Comments on the bremsstrahlung model of Brodsky and Gunion. (A21). 489763
- muon pairs**
QCD discussion of recoiling jets and angular effects in large $q_{\text{sub}}(T)$ muon pair production. (A21). 472009
- pair production**
Chromodynamics and the Feynman-x dependence of lepton pairs in hadron collisions. (A21, A11). 464803
Lepton pair production: where the simple Drell-Yan picture breaks down. (A21). 489774
Review of the theory and phenomenology of lepton pair production. (A21, A22; Review Drell-Yan mechanism, parton distribution, gluon radiation, quantum chromodynamics, transverse momentum). 464805
- particle production**
High energy predictions in Q.C.D. (A21, A11; Parton model, wee partons, cut vertices, Wilson expansion). [Data] 489805
Large transverse momentum and large mass production in hadronic interactions. (A22). 483704
Parton recombination model. (A21). 481381
Production of leptons with large transverse momenta in hadron-hadron collisions at high energies. (A21). 493044
Study of charm production through $e\mu$ and eK correlations. (A21). [Data] 464769
- polarization**
Polarization experiments: a theoretical review. (A21). 464802
Polarization phenomena in two body systems. (A21, A11; Review). 483678
- polarized products**
Transverse quark polarization in large $P/\text{sub } T/$ reactions and e^+e^- jets. (A21, A11). 489859
- polarized targets**
Polarized target experiments at CERN. (A22, E16). 489943
- quantum chromodynamics**
Applications of QCD to the production of mesons and jets in hadron-hadron collisions. (A21). 471996
QCD scattering processes with hard gluon emission. (A21). [Data] 475621
- quark model**
Application of quark-gluon model in strong interactions. (A21). 471985
Composite model and hadron reactions. (A21). 468078
Dynamical model of factorized quarks and description of elastic and inelastic processes. (A21). 483668
Quark dynamics in soft hadronic collisions and fragmentation on nuclear targets. (A21, A33). 460203
- research programs**
High energy hadron-hadron collisions. Annual progress report. (A21; Summaries of research activities at the Univ. of Georgia). 475544
Nuclear structure at intermediate energies. Progress report, April 1, 1978 - March 31, 1979. (A22; Summaries of research activities at Rice University). 464911
- scaling laws**
High energy interactions and cosmic ray components in the atmosphere. (A15, A21). 489542
High energy interactions and cosmic-ray components in the atmosphere. (E41, A15, A22). 492165
Scaling breaking in fragmentation region at superhigh energies in the quark model. (A21). 462533
- scattering amplitudes**
Connection between quark-model eigenstates and low-energy scattering. (A21). 486060
- selection rules**
The Okubo-Zweig-Iizuka rule and dual unitarization. (A21). 468115
- simulation**
Computer Simulation of Emulsion Chamber C-jets using conventional particle physics. (A21). 489778
- structure functions**
Lepton pair production: where the simple Drell-Yan picture breaks down. (A21). 489774
Quantum chromodynamics and the dynamics of hadrons. (A21, A11; Review, bound state, perturbation theory). 478412
- symmetry**
Study of the symmetries and properties of the particle-particle angular correlations. (A21). 472050
- total cross sections**
Hadron-nuclear collisions for asymptotically high energies in the complex momenta theory with $a_{\text{sub}}(p)/\text{sup}(0) > 1$. (A21, A33). 468072
- transverse momentum**
Chromodynamics and the Feynman-x dependence of lepton pairs in hadron collisions. (A21, A11). 464803
Effect of parton transverse momenta on hadronic large $p_{\text{sub}}(t)$ phenomena. (A21). [Data] 481390
Large transverse momentum phenomena. (A22). 460227
On the small and large p behaviour of hadronic processes. A new wave-particle duality. (A21). 464793
Phenomenological scaling violation and the parton model for large- $P/\text{sub } T/$ processes. (A21; Cross sections). 481415
- HADRONIC ATOMS:**
(Atoms with a hadron such as an antiproton or a sigma-minus particle bound in atomic orbits.)
See also KAONIC ATOMS; MESIC ATOMS; MUONIC ATOMS; PIONIC ATOMS
- absorption**
Absorption in kaonic and antiprotonic atoms (including protonium). (A11). 483094
- chemical bonds**
Chemical structure studies with positrons and mesons. (A13, A12). 471494
- energy levels**
Exotic atoms. (A12). 488850
- energy-level transitions**
Atomic spectral lines in helium containing a quark in the nucleus. (A12). 488834
Hadronic atoms. (A12, A22). 477842
- molecular structure**
Chemical structure studies with positrons and mesons. (A13, A12). 471494
- reviews**
Exotic atoms. (A12). 488850
- x-ray spectra**
Compilation of data from hadronic atoms. (A12, A22). [Data] 459763
- HADRONIC PARTICLE DECAY:**
(Particle decay due to hadronic interaction.)
- decay amplitudes**
Non-leptonic hyperon decays in the (8,8) model of broken chiral symmetry. (A21). [Data] 462575
- su-8 groups**
Non-leptonic hyperon decays in the (8,8) model of broken chiral symmetry. (A21). [Data] 462575
- HADRONS:**
See also more specific entries as listed in the INIS Thesaurus.
- bag model**
The bag model of hadrons. (A21). 489887
- bootstrap model**
Statistical bootstrap model and critical behaviour of hadronic matter. (A21). 475559
- charged particles**
Studies of proton-proton collisions at the CERN ISR with an identified charged hadron of high transverse momentum at 90° . II. (A22). 460223
- charm particles**
Global hadron compounding - is colour superfluous. (A21). 493087
- cluster emission model**
Clusters in the processes of multiple hadron production. (A21). 475553
- color model**
Quasinuclear colored quark model for hadrons. (A21; Lectures). 478472
- cosmological models**
Abundances of new stable particles produced in the early universe. (A21). 472059
- coulomb scattering**
On simulating high energy particle trajectories in a medium with an arbitrary magnetic field. (F51). 477548
- electroproduction**
Charge retention in deep-inelastic electroproduction. (A21). 478438
Neutral energy production in e^+e^- annihilation. (A22; Cross sections). [Data] 486153
A phenomenological model for nuclear leptonproduction. (A21). 489845
- elementary particles**
Spino ether and its vortices: leptons and hadrons. (A21, A15). 468140
- gluon model**
Gluon distribution in hadrons. (A21, A11). 464762
Hadron and photon production at large transverse momentum and the dynamics of QCD jets. (A21; Review). 475533
- jet model**
DESY: physics from PETRA. (A22). 478516
Experimental properties of neutrino-induced jets. (A22). 472087
- mass**
Hadron mass corrections and parton transverse momentum in hadronic μ -pair production. (A21). 481376
- mass formulae**
Representations of the Poincare group for relativistic extended hadrons. (A21). 489825
- mass spectra**
Session A5: hadron spectroscopy, experimental. (A22). 489972
- multiple production**
A hadron bundle detected with a emulsion chamber exposed on Mt. Chacaltaya. (A15). 489401
New properties of many-particle correlations in processes of multiple production. (A21). 493052
On properties of gluon matter and multi-hadron production. (A21). 489819
Transition to CNO scaling in models of multiple production of

- hadrons. (A21). 468047
- nuclear matter**
- Particle production from nuclear targets and the structure of hadrons. (A21, A33; High and low momentum transfer). 486019
- pair production**
- Dihadron spectrum, quarks, and Chao-Yang statistics. (A21). 489755
- Nucleon-number dependence of inclusive dihadron production in proton-nucleus collisions at 400 GeV/c. (A22). 486139
- Scaling properties of high-mass symmetric hadron- and pion-pair production in proton-beryllium collisions. (A22). [Data] 464901
- particle models**
- Particle order: a new fundamental concept in hadron physics. (A21). 493090
- particle production**
- DESY: physics from PETRA. (A22). 478516
- Expectations for ultra-high energy interactions. (A21, A11; Preliminary results). 478442
- Experimental properties of neutrino-induced jets. (A22). 472087
- Experimental review of beam polarization in high energy e^+e^- storage rings. (E16, A21). 491665
- First observation of hadron production in e^+e^- collisions at 13 and 17 GeV cms energy with the PLUTO detector at PETRA. (A22). 478528
- Hadron and photon production at large transverse momentum and the dynamics of QCD jets. (A21). 471980
- Hadron and photon production at large transverse momentum and the dynamics of QCD jets. (A21; Review). 475533
- Hadron production in muon-proton and muon-deuteron collisions. (A22). 486145
- Hadron production in charged current neutrino and antineutrino interactions at high energy. (A22). 468169
- Heavy-particle production by cosmic rays. (A15, A21). [Data] 464594
- High energy predictions in Q.C.D. (A21, A11; Parton model, wee partons, cut vertices, Wilson expansion). [Data] 489805
- Jet structures in high $p_{\text{sub}}(T)$ proton-proton collisions at the CERN ISR. (A22). 481435
- Measurement of the relative total hadronic cross section R at PETRA. (A22). 486118
- New type of nuclear interactions in the $\Sigma E/\text{sub lt. slash}/ > 10^{14}$ eV region. (A15, A22). 489489
- Observation of energetic delayed hadrons in extensive air showers - new massive particles. (A22). 489953
- Observation of energetic delayed hadrons in air showers: New massive particles. (A15, A22). 485874
- Properties of hadron final states in e^+e^- annihilation at 13 GeV and 17 GeV center of mass energies. (A22). 483687
- Quantum chromodynamics and the dynamics of hadrons. (A21, A11; Review, bound state, perturbation theory). 478412
- particle structure**
- Gluon distribution in hadrons. (A21, A11). 464762
- Theory of hadronic structure. (A21, A11). 478416
- phase transformations**
- Phase transitions in hadronic matter. (A21). 475539
- photoproduction**
- Measurement of shadowing in photon-nucleus total cross sections from 20 to 185 GeV. (A22). 475663
- Measurement of total cross sections of hadron photoproduction on C, Cu, and Pb nuclei for $E_{\text{sub}}(\gamma) = (12-30)$ GeV. (A22, A33). 468154
- quantum chromodynamics**
- Chromodynamic theory of hadrons. (A21). 493056
- Expectations for ultra-high energy interactions. (A21, A11; Preliminary results). 478442
- Feynman rules of quantum chromodynamics inside a hadron. (A21, A11). 478469
- quark model**
- Cosmological constraints on new stable hadrons. (A15, A21). 485865
- Hadron and photon production at large transverse momentum and the dynamics of QCD jets. (A21; Review). 475533
- Quasinuclear colored quark model for hadrons. (A21; Lectures). 478472
- quarks**
- Hadrons and quarks in high energy collisions. (A21). 475581
- radiation detectors**
- Detector for x-hall. (E16). 473708
- regge trajectories**
- Factorisation of Regge slopes for multiquark hadrons. (A21). 481350
- s matrix**
- Particle order: a new fundamental concept in hadron physics. (A21). 493091
- self-energy**
- Are the pseudoscalars light because of hadron self energies. (A21). 478503
- statistical models**
- Critical behavior of hadronic matter: Critical-point exponents. (A21, A11). 478491
- structure functions**
- On behaviour of hadron structure functions at $x \rightarrow 1$. (A21). 464800
- Quark fragmentation in high energy neutrino and antineutrino reactions. (A21, A22). [Data] 489874
- Quark-parton model with large parton $k_{\text{sub}} T$. (A21). 460182
- Structure functions of quarks, gluons and hadrons in quantum chromodynamics. (A21). 478429
- Two-photon collisions and short-distance tests of quantum chromodynamics. (A21, A11; Review, scaling). 471981
- transverse momentum**
- Transverse momenta of hadrons in jets, generated by quarks and gluons. (A21). 493059
- The transverse momentum behaviour of hadrons, multihadron systems, and lepton pairs. (A21). 472048
- twistor theory**
- The unitary space of particle internal states. (A21). 468123
- wave functions**
- High energy hadron-nucleus collisions. (A21; AKG cutting rules). 489841
- weak neutral currents**
- Hadronic structure of the weak neutral current. (A22; Neutral-to-charged current event ratio, neutron to proton cross sections). 468197
- weak particle decay**
- Weak decays. (A21; Review, lecture). 468147
- HAEMOPHILUS:**
- near ultraviolet radiation**
- Revised spectra for the inactivation of Haemophilus influenzae transforming DNA by monochromatic ultraviolet light: effect of histidine. (C12). [Data] 472933
- polysaccharides**
- Comparison of counter-current immunoelectrophoresis, latex agglutination, and radioimmunoassay in detection of soluble capsular polysaccharide antigens of Haemophilus influenzae type b and Neisseria meningitidis of groups A or C. (C62). [Data] 473454
- HAFNATES:**
- (Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- crystal-phase transformations**
- Phase transformation in the PbHfO_3 crystal in a strong electric field. (B12). 493595
- quadrupole moments**
- Anomalous polarization in SrTiO_3 and PbTiO_3 . (A13). 492650
- refractories**
- Some crystal-chemical and thermodynamic properties of lanthanum zirconate and hafnate. (B23). 476360
- HAFNIUM:**
- High temperature strain behavior of Zircaloy-4 and Zr-2.5Nb fuel sheaths. (B22, E23). 472645
- activation analysis**
- Athens $1^{\circ} \times 2^{\circ}$ NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
- Harrisburg $1^{\circ} \times 2^{\circ}$ NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- anodes**
- Anodic dissolution of hafnium and its carbide. (B12). 493549
- combustion**
- Investigation of combustion processes of hafnium, niobium and tantalum with silicon. (B12). 486655
- ion exchange chromatography**
- Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- neutron absorbers**
- Absorbant materials. (B24, B25). [Data] 472724
- neutron reactions**
- Study of the systematics for $(n,2n)$ reactions. (A34; 14.8 MeV). 460363
- nitridation**
- A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- oxidation**
- A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- photoelectron spectroscopy**
- The XPS valence band spectra of Hf metal and $\text{Hf}(\text{Sub}(x))\text{NyOs}(\text{sub}(z))$ compounds and the correlation to their superconductivity. (A17). 475499
- quantitative chemical analysis**
- The abundances of titanium, zirconium and hafnium in stony meteorites. (B11). [Data] 460423
- Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676
- secondary emission**
- A comparison of experimental secondary ion energy spectra of polycrystalline metals with theory. (A13). [Data] 471558
- solvent extraction**
- Extraction properties of octaethyltetraamidopyrophosphate (OETAPP) Pt. 2. (B12). 484030
- spectroscopy**
- Production and analysis of some atomic emission spectra in the vacuum ultraviolet. (A12, E42). 483198
- thermal conductivity**
- Thermal, electrical and radiative properties of titanium, zirconium and hafnium in the temperature range 1000-2100 K. (B22). 486918
- trace amounts**
- Trace element analysis of archaeological materials and the use of pattern recognition methods to establish identity. (B11). 483958
- zircon**
- Determination of zirconium and hafnium in zircons by cyclic activation analysis. (B11). [Data] 493498
- HAFNIUM ADDITIONS:**
- hyperfine structure**
- Magnetic hyperfine fields in the $(\text{Zr sub}(1-x) \text{Hf sub}(x)) \text{Fe}_2$ compounds. (A13). 471461
- HAFNIUM ALLOYS:**
- See also HAFNIUM BASE ALLOYS

- equations of state**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- hydrogen**
Moment formation upon hydrogen absorption in Hf₂Fe. (B22). 490565
- hyperfine structure**
The magnetic hyperfine field at Hf sites in the (Zr, Hf)Fe₂ laves pseudo-binary compound. (A13). 485617
- nuclear magnetic resonance**
NMR and relaxation in Vsub(2-x)Nbsub(x)Hf, Vsub(2-y)Nbsub(y)Zr compounds. (A13). 481165
- transport**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- type-II superconductors**
Dielectric phase transitions in the superconducting C15 compounds ZrV₂ and HfV₂. (B22, A17). 472665
- Ultrasonic velocity in the mixed state of Nb-26-at. % Hf. (B22, A17). [Data] 465628
- ultrasonic waves**
Ultrasonic velocity in the mixed state of Nb-26-at. % Hf. (B22, A17). [Data] 465628
- HAFNIUM BASE ALLOYS:**
- diffusion**
Diffusion in the hydride phases of titanium-subgroup metals. (B22). 476280
- hydrogen**
Hydrogen absorption in various zirconium- and hafnium- based intermetallic compounds. (B22). 484191
- hydrogen additions**
Diffusion in the hydride phases of titanium-subgroup metals. (B22). 476280
- oxidation**
Oxidation of hafnium-iron alloys. (B22, B15). 484273
- HAFNIUM BROMIDES:**
- nuclear quadrupole resonance**
Structure and spectra of ³⁵Cl, ⁷⁹Br and ¹²⁷I nuclear quadrupole resonance of zirconium and hafnium tetrahalogenides. (B12). 486627
- HAFNIUM CARBIDES:**
- anodes**
Anodic dissolution of hafnium and its carbide. (B12). 493549
- chemical preparation**
Formation and properties of cubic solid solutions in the W-Ti-C, W-Zr-C, and W-Hf-C systems. (B21, B22, A17). [Data] 479352
- crystal structure**
Formation and properties of cubic solid solutions in the W-Ti-C, W-Zr-C, and W-Hf-C systems. (B21, B22, A17). [Data] 479352
- crystal-phase transformations**
Phase boundaries of transition metal carbides. (B12). 490357
- electronic structure**
On the electronic structure of HfC, TaC and UC. (B23, A13). [Data] 462927
- phase diagrams**
Effect of alloying of uranium carbide on its interaction with carbon. (B23; UC-TiC-C, UC-ZrC-C, UC-HfC-C, UC-NbC-C, UC-TaC-C systems). 465682
- photoelectron spectroscopy**
The XPS valence band spectra of Hf metal and HfCsub(x)NyOsub(z) compounds and the correlation to their superconductivity. (A17). 475499
- HAFNIUM CHLORIDES:**
- nuclear quadrupole resonance**
Structure and spectra of ³⁵Cl, ⁷⁹Br and ¹²⁷I nuclear quadrupole resonance of zirconium and hafnium tetrahalogenides. (B12). 486627
- phase diagrams**
On geometry of melting point diagrams of binary systems on the base of tetrachlorides. (B12). 465295
- HAFNIUM COMPLEXES:**
- chemical preparation**
Carbonate complexes of zirconium and hafnium. (B12). 478923
- Coordination compounds of titanium (4), zirconium (4) and hafnium (4) with thiosemicarbazone of benzaldehyde. (B12). 493639
- Direct electrochemical synthesis of complex fluorides of elements of the fourth and sixth groups. (B12). 460526
- Formation of dinuclear complexes in the systems of Nd-La-EDTA, Eu-Hf-EDTA, Eu-Nd-DTPA. (B12). 490415
- Hafnium sulfate complexes with alkali metals or ammonium. (B12). 478942
- Peroxyfluorides of zirconium and hafnium. (B12). 493599
- differential pac**
Hyperfine interactions in the tetrakis (D1-2-Naftilglicolate) hafnium (IV). (A13). 471512
- Parameters of differential perturbed angular correlation (DPAC) for the tetrakis (di-p-chloromandelate)- and tetrakis (di-p-bromomandelate) hafnium (IV) complexes. (A13). 471503
- fluorescence spectroscopy**
Luminescent determination of zirconium and hafnium with myricetin. (B11). 460427
- Use of different-ligand complexes in fluorescence analysis. (B11; complexes of Nb, V, Re, Ta, Hf, Zr). 475900
- hydrolysis**
Hydrolysis of hexafluoride complexes of zirconium and hafnium. (B12). 490334
- hyperfine structure**
Hyperfine interactions in the tetrakis (D1-2-Naftilglicolate) hafnium (IV). (A13). 471512
- nmr spectra**
Application of the wide line NMR method to study structure of zirconium and hafnium peroxyfluorides. (B12). 493600
- photometry**
3,4-dihydroxyazobenzene as a reagent for photometric determination of hafnium. (B11). 493542
- radiolysis**
On the identification of complexing radiolysis products in the Purex system. (20%TBP - Dodecane - HNO₃). (B16). 472569
- stability**
Solvent extraction of hafnium. (B12). 462734
- HAFNIUM COMPOUNDS:**
See also HAFNATES; HAFNIUM BROMIDES; HAFNIUM CARBIDES; HAFNIUM CHLORIDES; HAFNIUM FLUORIDES; HAFNIUM HYDRIDES; HAFNIUM IODIDES; HAFNIUM NITRIDES; HAFNIUM OXIDES; HAFNIUM SULFATES; HAFNIUM SULFIDES
- chemical preparation**
Synthesis and properties of anhydrous hafnium perchlorate. (B12). 493560
- crystal structure**
Titanium, zirconium and hafnium monopolonides. (B12, B13). 479026
- electric fields**
Temperature dependence of electric field gradients at Cd and Hf sites in cadmium perovskites. (A13). 459784
- polarography**
Polarography of organic phosphorus acids and their salts with zirconium and hafnium in acetone medium. (B11). 478807
- pyrolysis**
Thermal decomposition of hafnium compounds with some hydroxy acids. (B12). 476019
- quantitative chemical analysis**
Luminescent determination of zirconium and hafnium with myricetin. (B11). 460427
- Zirconium Zr and hafnium Hf. (B11). 468607
- 3,4-dihydroxyazobenzene as a reagent for photometric determination of hafnium. (B11). 493542
- solvent extraction**
Solvent extraction of hafnium(IV) by dinonylnaphthalene sulfonic acid from mixed aqueous-organic media. (B12). [Data] 481666
- HAFNIUM FLUORIDES:**
- crystallography**
Peculiarities of crystallochemistry of fluorine and oxygen in hydrated fluorides. (B12; BF₃·xH₂O, InF₃·xH₂O, ZrF₄·xH₂O, HfF₄·xH₂O, UF₆·xH₂O). 493557
- HAFNIUM HYDRIDES:**
- magnetic moments**
Moment formation upon hydrogen absorption in Hf₂Fe. (B22). 490565
- HAFNIUM IODIDES:**
- nuclear quadrupole resonance**
Structure and spectra of ³⁵Cl, ⁷⁹Br and ¹²⁷I nuclear quadrupole resonance of zirconium and hafnium tetrahalogenides. (B12). 486627
- HAFNIUM IONS:**
- energy-level transitions**
Identification of 5g and 6g terms and revised ionization energies in the Yb II 4f¹⁴nl isoelectronic sequence. (A12). [Data] 464097
- HAFNIUM ISOTOPES:**
See also HAFNIUM 156; HAFNIUM 167; HAFNIUM 168; HAFNIUM 169; HAFNIUM 171; HAFNIUM 172; HAFNIUM 173; HAFNIUM 174; HAFNIUM 175; HAFNIUM 177; HAFNIUM 178; HAFNIUM 179; HAFNIUM 180; HAFNIUM 181
- excited states**
Pairing and quadrupole force effects on energies of O⁺ states of rare-earth nuclei. (A33; sup(170,172,174)Yb, sup(174,176,178)Hf). 493254
- HAFNIUM NITRIDES:**
- enthalpy**
High-temperature enthalpy and heat capacity of hafnium mononitride. (B12). 476009
- HAFNIUM OXIDES:**
- chemical preparation**
New compounds with pyrochlore structure in systems containing AlNbO₄, GaNbO₄, SbNb(Ta)O₄. (B12; New compounds: PbAlTiNbO₄, PbSbBTaO₄, CdSbBTaO₄ (B-Ti,Sn,Zr,Hf)). 478908
- chemical state**
On the hafnium state in sulfuric acid solutions. (B12). 468749
- color centers**
Low-temperature induced centers in stabilized ZrO₂ and HfO₂ monocystals. (A13). 464144
- comparative evaluations**
Characterization of metastable tetragonal hafnia. (B23). 479490
- cracks**
Microcracking of monoclinic HfO₂. (B23). 460768
- crystal growth**
Growing and investigation of stabilized cubic crystals of zirconium- and hafnium dioxides. (B12). 468691
- fabrication**
Characterization of metastable tetragonal hafnia. (B23). 479490
- ionic conductivity**
Electric conductivity and mobility of oxygen ions in Y₂O₃ with small additions of HfO₂. (B23). 476371
- mechanical properties**
Characterization of metastable tetragonal hafnia. (B23). 479490

- phase diagrams**
Study on the $\text{Nd}_2\text{O}_3\text{-HfO}_2$ system. (B23). 476357
sintering
Fabrication of dense heat resisting ceramics of hafnium dioxide. (B23; For English translation see the journal Refractories). 476369
- thermal expansion**
Microcracking of monoclinic HfO_2 . (B23). 460768
- HAFNIUM SULFATES:**
x-ray diffraction
X-ray diffraction study on double hafnium sulfates with rubidium and cesium. (B12). 476064
- HAFNIUM SULFIDES:**
absorption
Interpolation-induced shift of the absorption edge in ZrS_2 and HfS_2 . (A13). 481169
chemical properties
On some properties of rare earth thiohafnates. (B12; La, Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Y). 490405
- HAFNIUM 150:**
alpha decay
Alpha decay studies of very neutron deficient isotopes of Hf, Ta, W, and Re. (A34). [Data] 481565
isotope production
Alpha decay studies of very neutron deficient isotopes of Hf, Ta, W, and Re. (A34). 481564
- HAFNIUM 167:**
backbending
Backbending in ^{168}Hf and the $N = 96$ isotones. (A34). 465183
- HAFNIUM 168:**
backbending
Backbending in ^{168}Hf and the $N = 96$ isotones. (A34). 465183
- HAFNIUM 169:**
backbending
Backbending in ^{168}Hf and the $N = 96$ isotones. (A34). 465183
- HAFNIUM 171:**
high spin states
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A33). 475718
isomeric nuclei
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A34). [Data] 468469
rotational states
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A33). 475718
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A34). [Data] 468469
- HAFNIUM 172:**
adsorption
Characteristics of wastes and soils which affect transport of radionuclides through the soil and their relationship to waste management. Annual report FY78. (C52, B31, E52). [Data] 491185
deformed nuclei
Application of exact angular momentum projection to excited bands in strongly deformed nuclei. I. (A33). 478655
electron capture decay
Levels in ^{172}Yb from the ^{172}Lu β -decay. (A34). [Data] 475814
environment
Retention of low-level radioactive waste material by soil. (C52, E52, B31). 466293
radionuclide kinetics
Interactions of transuranic wastes with soils. (C22, C21). 461118
soils
Interactions of transuranic wastes with soils. (C22, C21). 461118
- HAFNIUM 173:**
high spin states
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A33). 475718
isomeric nuclei
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A34). [Data] 468469
rotational states
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A33). 475718
Three-quasiparticle isomers and rotational bands in ^{171}Hf and ^{173}Hf . (A34). [Data] 468469
- HAFNIUM 174:**
energy levels
Lifetimes of isomeric states in ^{174}Hf . (A34). [Data] 486348
high spin states
Approximate angular momentum projection from cranked intrinsic states. (A33). [Data] 464995
- HAFNIUM 175:**
electric fields
The electric field gradient at ^{173}Hf nuclei aligned in a Lu single crystal at low temperatures. (A13). [Data] 488973
- HAFNIUM 177:**
e1-transitions
Distribution of partial γ -widths of neutron resonances in ^{177}Hf . (A33). 493246
- HAFNIUM 177 TARGET:**
alpha reactions
High-spin rotational levels in ^{178}W populated in the $^{177}\text{Hf}(\alpha, 3n\gamma)$ reaction. (A34). 460332
- HAFNIUM 178:**
high spin states
High spin states in neutron rich rare earth nuclei. (A34). 465103
m4-transitions
M4 decay of an Yrast trap in ^{178}Hf . (A34). 490153
- yrast states**
Indication in electron spectra of the M4-deexcitation of the 16^+ yrast trap in ^{178}Hf . (A34). 465154
- HAFNIUM 178 TARGET:**
deuteron reactions
High-spin states of the doubly odd nucleus ^{178}Ta . (A34). 468471
proton reactions
High-spin states of the doubly odd nucleus ^{178}Ta . (A34). 468471
- HAFNIUM 179:**
muons
Atomic masses of selected isotopes of erbium, hafnium, and osmium. (A34). 490176
- HAFNIUM 180:**
high spin states
High spin states in neutron rich rare earth nuclei. (A34). 465103
k conversion
Penetration effect of 500.6 keV K-forbidden $M2 + E3$ transition in M2 component in ^{180}Hf . (A34). 460361
l conversion
Penetration effect of 500.6 keV K-forbidden $M2 + E3$ transition in M2 component in ^{180}Hf . (A34). 460361
magnetic dipole moments
Current densities in the projected Hartree-Fock approach. I. Magnetic moments. (A33). 490089
mass
Atomic masses of selected isotopes of erbium, hafnium, and osmium. (A34). 490176
- HAFNIUM 181:**
labelled compounds
Perturbed angular correlation studies of Hf binding to cyanocobalamin (vitamin B_{12}). (B13). 468900
- HAHN-MEITNER VICKSI ACCELERATOR:**
See VICKSI ACCELERATOR
- HAIR:**
activation analysis
Multi-trace-element determinations in biological samples by means of instrumental neutron activation analysis and mono-element standards. (B11). 460406
neutron activation analysis
INAA study on trace elements in hair of three selected population groups in Czechoslovakia. (B11). 472375
Neutron activation analysis of pollutants in human hair using research reactors. Part of a coordinated programme. (B11). 483948
New method in the criminalistics: neutron-activation analysis of the human hair. (B11). [Data] 493497
Work in the coordinated programme on neutron activation analysis of pollutants in human hair, using research reactors. (B11). 483980
- x-ray emission analysis**
Proton induced X-ray emission analysis of Pima Indian autopsy tissues. (B11). 490298
- HALDEN HEAVY BOIL. WA. REACTOR:**
See HBWR REACTOR
- HALF-LIFE:**
high spin states
Search for high-spin isomeric states in the rare-earth region. (A34). 490175
- HALF-LIFE (BIOLOGICAL):**
See BIOLOGICAL HALF-LIFE
- HALF-LIFE (EFFECTIVE):**
See BIOLOGICAL HALF-LIFE
- HALFTIME:**
See HALF-LIFE
- HALIDES:**
See also more specific entries as listed in the INIS Thesaurus.
muonic atoms
Capture of muons in atoms. (A12; Lecture, atomic cascade). [Data] 492549
photoelectron spectroscopy
PES of high temperature vapors. VIII. Transition metal dihalides. (A10). 466990
solubility
The system of $\text{NaB}_2\text{O}_6\text{-NaGTA(GITA-Cl, Br, I)-H}_2\text{O}$ at 25 deg C. (B12). 476077
- HALL EFFECT:**
correlations
Empirical correlation between the superconducting $T_{\text{sub}}(c)$ and the Hall constant. (A17, A13). 471952
On the empirical correlation between the superconducting $T_{\text{sub}}(c)$ and the Hall coefficient. (A17, A13, B22). 489678
measuring methods
Measurement of the Hall effect in semiconductors at supersonic frequencies. (A13). 464206
- HALL GENERATORS:**
See MHD GENERATORS
- HALOGEN COMPOUNDS:**
(For inorganic compounds only; see also ORGANIC HALOGEN COMPOUNDS.)
radiosensitivity
Photochemical studies and ultraviolet sensitization of Escherichia coli Thymidylate kinase by various halogenated substrate analogs. (C11). 469578
surface coating
Study of the growth of vacuum condensed Au particles onto the (100) surfaces of KBr, KCl and NaCl substrates with colloidal centres. (A13). 485576
- HALOGENATED ALIPHATIC HYDROCAR:**
See ORGANIC HALOGEN COMPOUNDS
- HALOGENATED HYDROCARBONS:**
See ORGANIC HALOGEN COMPOUNDS

HALOGENATION:

See also *BROMINATION; CHLORINATION; FLUORINATION*
chemical radiation effects

On effect of donor-acceptor complexes of active particles with initial molecules on kinetics of chain reactions of oxidation and haloaenation. (B14). 479259

HALOGENS:

See also *ASTATINE; BROMINE; CHLORINE; FLUORINE; IODINE*
Negative surface ionization: Intense halogen-ion source. (A12). 488881

atom-molecule collisions

Electron contact during collisions between atoms and molecules. (A12). 474601

substrates

Factors determining the structure of Au, Ag and Cr thin layers deposited on alkaline halogen substrates. (A13). 459785

HAM:

See *MEAT*

HAMADA-JOHNSTON POTENTIAL:**nuclear matter**

A correlated-basis-functions approach to realistic nuclear matter. (A33). 472170

HAMAOKA-1 REACTOR:**ground motion**

Seismic response analysis of nuclear reactor buildings under consideration of soil-structure interaction with torsional behaviour. (C52, E31). 461252

reactor licensing

Alteration of reactor installations (Unit 1 and 2 reactor facilities and spent fuel disposal) in Hamaoka Nuclear Power Station of The Chubu Electric Power Co., Ltd. (C52). 482203

HAMILTON OPERATORS:

See *HAMILTONIANS*

HAMILTON-JACOBI EQUATIONS:**lie groups**

Symmetry and separation of variables in the Hamilton - Jacobi equations. 1. (A11). 474520

Symmetry and separation of variables in the Hamilton-Jacobi equations. 2. (A11). 474521

HAMILTONIANS:

LIEPROC: a MACSYMA program for finding adiabatic invariants of simple Hamiltonian systems via the Lie transform. (F50, A14; In LISP for Decsystem-10). 488505

boundary conditions

A class of lower bounds for Hamiltonian operators. (A11). 462063

canonical transformations

A canonical transformation of the Hamiltonians quadratic in coordinate and momentum operators. (A11). 488558

Canonical transformations to action and angle variables and their representations. (A11). 477656

eigenstates

Fermion Hamiltonians with monopole and quadrupole pairing. (A33). 464989

eigenvalues

Exact eigenvalues of the Hamiltonian $P^2 + A \bar{X} X$ sup(v). (A11). 462095

Modified Borel summation method. (A11). 477607

harmonic oscillators

A canonical transformation of the Hamiltonians quadratic in coordinate and momentum operators. (A11). 488558

molecular structure

Intermolecular correlation in a new approximation scheme. (A12). 471312

numerical solution

New method of discrete spectrum calculation. (A11). 492500

randomness

On the rate of fall-off of eigenfunctions of a model random hamiltonian. (A11). 485378

sp groups

Infinitesimal symplectic relations and generalized Hamiltonian dynamics. (A11). 471268

wigner theory

Bounded energy approximation to an unstable quantum system. (A11). 474442

HAMSTERS:**biological radiation effects**

Biological effects of repeated inhalation exposure of Syrian hamsters to aerosols of $^{239}\text{PuO}_2$. III. (C21). 469768

Local distribution of collagen in Syrian hamster lungs after inhalation of $^{238}\text{PuO}_2$ particles. (C21). 469743

Occurrence and lobar distribution of lung cancer in Syrian hamsters induced by intratracheal administration of ^{210}Po . (C21). 469755

Repeated inhalation exposure of Syrian hamsters to $^{144}\text{CeO}_2$. III. (C21). 469766

cell cultures

Response of cultured mammalian cells to x-rays and ultraviolet light. (C11). 481996

radionuclide kinetics

Experimental studies of the use of DTPA and other agents to limit the systemic burden of plutonium after wound contamination. (C21; Nicotinohydroxamic acid; para-butoxyphenylacetohydroxamic acid; calcium N-acetyl-6-amino-hexanoate). 479939

Influence of ^{239}Pu aerosol production temperature on biological responses in Chinese hamsters. (C21). 469739

HANDLING (DATA):

See *DATA PROCESSING*

HANDLING (MATERIALS):

See *MATERIALS HANDLING*

HANDLING (WASTES):

See *WASTE MANAGEMENT*

HANDLING LICENSES:

See *LICENSES*

HANDS:

See also *FINGERS*

biomedical radiography

Soft tissue abnormalities at fracture of the scaphoid. (C61). 473350

blood circulation

The assessment of digital vessel disease by dynamic hand scanning. (C62). [Data] 470093

bone fractures

Soft tissue abnormalities at fracture of the scaphoid. (C61). 473350

radiation doses

In vivo analysis of bone calcium by local neutron activation of the hand: results in normal and osteoporotic subjects. (B11, C62, C15). 472368

HANFORD ATOMIC PRODUCTS OPERAT:

See *HAPO*

HANFORD NEUTRON RADIOGRAPHY FA:

See *TRIGA-I-HANFORD REACTOR*

HANFORD PRODUCTION REACTORS:**radioactive wastes**

Validation of Turner Workbook normalized air exposure predictions for surface level releases using Hanford dispersion data. (B33; R). 487152

HANFORD RESERVATION:**contracts**

PMS: What are you getting for your money. (E36). 488200

geologic surveys

Geology along topographic profile for near-surface test facility. (E52, B31). 466890

geophysical surveys

Evaluation of seismic reflection surveying on the Hanford Site, Benton County, Washington. (E15, B31). [Data] 466513

hydrology

Ground-water hydrology and radioactive waste disposal at the Hanford Site. (E52, B32). 488371

Sediment moisture relations: lysimeter project, 1976 - 1977 water year. (C52, E52). 482221

nuclear facilities

Decommissioning and decontamination planning for Hanford nuclear facilities using multiattributed decision analysis. (E22, C52, B13). 470536

petrology

Core sample descriptions and summary logs of six wells within the Hanford Reservation. (B31, E50). 465794

radioactive waste disposal

Ground-water hydrology and radioactive waste disposal at the Hanford Site. (E52, B32). 488371

Summary of radioactive solid waste burials in the 200 areas during the first three quarters of 1978. (E52). [Data] 495204

Summary of radioactive solid waste burials in the 200 areas during the first half of 1978. (E52). 495203

Summary of radioactive solid waste burials in the 200 areas during 1978. (E52). [Data] 495205

radioactive waste storage

Characterization of the Hanford 300 area burial grounds. Decontamination and decommissioning regulatory issues. (E52). 477478

radioactive wastes

Granulometric data 216-S crib facilities monitoring well sediments. (B31, C52). [Data] 490770

Long-term low-level waste management: an integrated environmental program. (E50). 474177

Long-term transuranic defense waste management program overview. (E50). 488320

Quality assurance in alternative energy sources. (E50). 480823

Radioactive wastes at the Hanford Reservation. A technical review. (E50). 466868

Sediment moisture relations: lysimeter project, 1976 - 1977 water year. (C52, E52). 482221

radionuclide migration

^{90}Sr and ^{137}Cs in coyote scats from the Hanford Reservation. (C21). 466226

rock drilling

Descriptions of wells penetrating the Wanapum Basalt Formation in the Pasco Basin area, Washington. Volume 2. Well records and driller's logs for wells in townships 13 north through 16 north, bibliography, distribution. (B31, E52). 476462

Descriptions of wells penetrating the Wanapum Basalt Formation in the Pasco Basin area, Washington. Volume 1. Well records and driller's logs for wells in Townships 7 north through 12 north. (B31, E52). 476461

Hole history core hole DC-2 Hanford, Washington. (B31, E52). 465759

sediments

Granulometric data 216-S crib facilities monitoring well sediments. (B31, C52). [Data] 490770

spent fuel storage

Spent fuel demonstration tests: Best Effort Schedule. (E52, E15). 474230

HANKEL FUNCTIONS:

See *BESSEL FUNCTIONS*

HAPO:**mortality**

Radiation exposures of Hanford workers dying from cancer and other causes. (C15, C52). 463207

- personnel
Radiation exposures of Hanford workers: a critique of the Mancuso, Stewart and Kneale report. (C15, C52, C55). 461060
radioactive waste disposal
Scintillation probe profiles, 200 West Area, crib monitoring wells. (E52). 474227
safety
Safety analysis report 306-W Building. (C54). 466351
- HAPTOGLOBINS:**
binding energy
Haptoglobin radioassay based on binding to solid-phase hemoglobin. (C31; ^{125}I tracer technique). 479975
radioassay
Haptoglobin radioassay based on binding to solid-phase hemoglobin. (C31; ^{125}I tracer technique). 479975
- HARD COLLISION MODELS:**
(Models which reduce the origin of high systems to a binary collision of the projectiles or some subunits thereof.)
jet model
Where are the jets. (A21). 489840
particle production
A mechanism for the production of baryons at large transverse momentum. (A21). 486009
quantum chromodynamics
Perturbative QCD and hard scattering processes. (A21). 472045
- HARD METALS:**
See CERMETS
- HARD X RADIATION:**
polarization
On the nonthermal excitation and polarization of X-ray lines during solar flares. (A15). 467826
proportional counters
Risetime discrimination applied to pressurized Xe gas proportional counter for hard x-ray detection. (E41). 482828
- HARD-SPHERE MODEL:**
algorithms
Monte Carlo calculation of the radial distribution function of quantum hard spheres at finite temperatures. (A11). 485377
distribution functions
Monte Carlo calculation of the radial distribution function of quantum hard spheres at finite temperatures. (A11). 485377
- HARDENING:**
See also RADIATION HARDENING; STRAIN HARDENING; SURFACE HARDENING
HARMONIC OSCILLATOR MODELS:
An exact solution for harmonic generation. (A11). 459682
cranking model
Lagrange multipliers in the cranked harmonic oscillator model. (A33). 478683
dynamical groups
Quasipotential models of the relativistic oscillator. (A11). 492387
klein-gordon equation
Meson spectra with a harmonic-oscillator potential in the Klein-Gordon equation. (A21). 489861
transfer matrix method
Calculations of generalized harmonic oscillator brackets. (A33, F51). 483744
- HARMONIC OSCILLATORS:**
eigenvalues
Dynamical symmetries in a spherical geometry. (A11). 462084
equations of motion
On dipole interaction of the oscillator with a scalar field. (A11). 485358
four-dimensional calculations
Stable states of a relativistic harmonic oscillator imbedded in a random stochastic thermostat. (A11). 471240
green function
Exact Green function of a damped oscillator. (A11). 488589
hamiltonians
Brownian motion of a quantum oscillator and random walk in phase space. (A11). 463910
quantum mechanics
The relaxation of a macroscopic excitation of coupled oscillators. (A11). 488546
radiations
Radiation of a uniformly moving three-dimensional oscillator. (A11). 492411
rotation
On the eigenvalues of the rotating harmonic oscillator. (A11). 488602
statistical mechanics
Semiclassical statistical mechanics. (A11, A12). 485369
time dependence
Dynamical symmetries of the time-dependent Lewis-Riesenfeld harmonic oscillator. (A11). 483041
- HARTMANN NUMBER:**
spatial distribution
Heat transfer in two-dimensional MHD parallel-planes channel flow. (A13). 481132
temperature measurement
Heat transfer in two-dimensional MHD parallel-planes channel flow. (A13). 481132
- HARTREE APPROXIMATION:**
See HARTREE-FOCK METHOD
- HARTREE-FOCK METHOD:**
electronic structure
Relativity and pseudopotentials in the Hartree-Fock-Slater method. (A12). 483220
feynman path integral
Path-integral approach to time-dependent self-consistent field theories. (A11). 474508
gauge invariance
Quantized gauge invariant periodic TDHF solutions. (A11). 492442
quantum field theory
Field theoretic extensions of TDHF techniques. (A11, A21). 485289
relativistic range
Quantum fluctuations and the variational approach to bound states. (A11; Relativistic Hartree-Fock equations). 480974
reviews
Self-consistent calculations of nuclear properties with phenomenological effective forces. (A33). 468389
ritz method
Time-dependent Hartree-Fock theory and Rayleigh-Ritz principle. (A33). 481485
schroedinger equation
Time-dependent variational principle and the effective action. (A11). 483052
time dependence
Dissipation in time-dependent Hartree-Fock calculations. (A33). 486241
Quantized gauge invariant periodic TDHF solutions. (A11). 492442
A remark on time-dependent Hartree-Fock and functional approaches. (A33). 462613
A study of the adiabaticity of TDHF solutions. (A33). [Data] 493173
Time-dependent coupled-cluster approximation to nuclear dynamics. II. General formulation. (A33). 486236
Time-dependent Hartree-Fock theory and Rayleigh-Ritz principle. (A33). 481485
u groups
Unitary group formulation of Hartree-Fock theory. (A11). 483084
variational methods
Time-dependent Hartree-Fock phase: unique implication of variational principle. (A11; Unique solution). 477645
wave functions
Physical significance of employing self-consistent orbitals (SCO) with uniform long-range behavior. (A12). 459769
- HARTREE-FOCK-BOGOLYUBOV THEORY:**
(The Hartree-Fock approach as applied to self-consistent fields in the nuclei.)
cranking model
Second backbending in ^{158}Er . (A33). 468262
feynman path integral
Functional approach to a time-dependent self-consistent field theory. (A11). 492479
high spin states
Approximate angular momentum projection from cranked intrinsic states. (A33). [Data] 464995
potential energy
Calculation of nuclear deformations and collective spectra starting from a density-dependent, finite-range nuclear force. (A33). 468314
projection operators
Quasi-spin projection in an exactly soluble model. (A33). 483731
self-consistent field
Functional approach to a time-dependent self-consistent field theory. (A11). 492479
- HARTSVILLE-1 REACTOR:**
sociology
Economic impact analysis of energy facilities with particular reference to the Hartsville, Tennessee, area. (C52, E31). 491155
Mitigating community impacts of energy development: some examples for coal and nuclear generating plants in the U.S. (E31). 488047
- HARTSVILLE-2 REACTOR:**
sociology
Economic impact analysis of energy facilities with particular reference to the Hartsville, Tennessee, area. (C52, E31). 491155
Mitigating community impacts of energy development: some examples for coal and nuclear generating plants in the U.S. (E31). 488047
- HARTSVILLE-3 REACTOR:**
sociology
Economic impact analysis of energy facilities with particular reference to the Hartsville, Tennessee, area. (C52, E31). 491155
Mitigating community impacts of energy development: some examples for coal and nuclear generating plants in the U.S. (E31). 488047
- HARTSVILLE-4 REACTOR:**
sociology
Economic impact analysis of energy facilities with particular reference to the Hartsville, Tennessee, area. (C52, E31). 491155
Mitigating community impacts of energy development: some examples for coal and nuclear generating plants in the U.S. (E31). 488047
- HASTELLOY C:**
compatibility
Elevated temperature compatibility of Hastelloy C-276 and Bi_2Te_3 . (B22). 484264
corrosion
New Fe-Cr-Mo ferritic stainless steels. (B15). 469013
vickers hardness
Data sheet for high temperature Vicker's hardness number, (2). (B22). 481848
- HASTELLOY X:**
brazed joints
Brazed nickel/columbium dissimilar metal pipe joints for 720 C service. (B21). 469086

- chemical reactions**
The interaction of CsI with high-chromium alloys in the presence of oxygen. (B15). 493828
- compatibility**
Reaction of several iron and nickel based alloys with sintered Li₂O pellets. (B12). 468783
- corrosion**
Effect of fission product interactions on the corrosion and mechanical properties of HTGR alloys. (E33, B15; HTGR). 461713
- cracks**
Fundamental studies on electron beam welding on heat-resistant superalloys for nuclear plants. (3). (B21). 481771
- creep**
Creep behavior of Hastelloy X, 2 1/4 Cr-1 Mo steel, and other alloys in simulated HTGR helium. (B22, E33). 486902
Effect of a helium environment on the mechanical properties of HTGR primary system metals. (E33, B22). 461714
Effects of atmosphere on high-temperature strength of nickel base super alloys. (B15). 476191
Evaluation of creep and relaxation data for hastelloy alloy x sheet. (B22, E33). 465576
Study of tertiary creep instability in several elevated-temperature structural materials. (B22). 460690
- ductility**
Tensile properties of Hastelloy X and Incoloy 800 exposed to air and helium at high temperature. (B15). 465498
- fatigue**
Correlation of high cycle and low cycle fatigue data for some HTGR structural metals. (E33, B22). 461729
Effect of a helium environment on the mechanical properties of HTGR primary system metals. (E33, B22). 461714
- hot working**
Effect of minor elements on hot workability of nickel-base superalloys. (B22). 490645
- oxidation**
Effects of atmosphere on high-temperature strength of nickel base super alloys. (B15). 476191
- physical radiation effects**
Effects of irradiation and thermal aging upon fatigue-crack growth behavior of reactor pressure boundary materials. (B25, E22; Neutrons). 460814
Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- HASTELLOYS:**
See also *HASTELLOY C*; *HASTELLOY X*
- HATCH-1 REACTOR:**
reactor cores
Core design and operating data for Cycle 1 of Hatch 1. (E31). 470632
reactor operation
Core design and operating data for Cycle 1 of Hatch 1. (E31). 470632
- HAUSER-FESHBACH THEORY:**
compound-nucleus reactions
Agreement of Hauser-Feshbach calculations with experiment for the reaction ¹⁴N(¹⁴N,α)²⁴Mg at E_αsub c.m.at < 10.1 MeV. (A33). 486300
- HAVAR:**
multiple scattering
Stopping power and multiple scattering of Havar and Kapton for low energy protons. (A32). 468245
stopping power
Stopping power and multiple scattering of Havar and Kapton for low energy protons. (A32). 468245
- HAYNES 188 ALLOY:**
ductility
Ductility minimum and its reversal with prolonged aging in cobalt- and nickel-base superalloys. (B22, B21). 472641
- HAYNES 25 ALLOY:**
corrosion
Model for cobalt 60/58 deposition on primary coolant piping in a boiling water reactor. (E31, B22). 480625
ductility
Ductility minimum and its reversal with prolonged aging in cobalt- and nickel-base superalloys. (B22, B21). 472641
- HAZARDS:**
See also *FIRE HAZARDS*; *HEALTH HAZARDS*; *RADIATION HAZARDS*
Risk. (C52). 463383
comparative evaluations
A catalog of risks. (C52). [Data] 487446
nuclear power
Nuclear energy: how the odds are stacked against its opponents. (C52). 482240
probability
What is a risk. (C52; Quantitative risk analysis). 473261
- HBWR REACTOR:**
in-service inspection
Inservise inspection of Halden BWR pressure vessel. (E34). 463658
- HDEHP:**
decomposition
Method of estimating distribution coefficients of degradation products from organophosphorus extractants. (B11). 478827
mass spectra
Mass spectrometric study of the radiolysis of di-(2-ethylhexyl)phosphoric acid. (B14). 479294
radiopharmaceuticals
Evaluation of bone-marrow scanning with technetium-99m sulfur colloid in pediatric oncology. (C62, C21, C15, C60). 487740
Renal hyperconcentration of /sup 99m/Tc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of /sup 99m/Tc-HEDP, -DMSA, and -DTPA in rabbits). 487707
- solvent extraction**
Extraction of tetravalent cerium from sulfuric acid solutions. (B12). 478985
Thermodynamics of scandium extraction with di-(2-ethylhexyl)phosphoric acid from hydrochloric acid solutions. (B12). 476079
- HE-3 COUNTERS:**
dose equivalents
A counter for measuring neutron dose equivalent from thermal energies to 10 keV. (E41). 474044
dose ratemeters
Instrument to determine the dose equivalent or dose rate equivalent of neutrons. (E41). 461828
neutron dosimetry
Neutron dosimetric measurements using ³He detectors. (C55). 487638
ultracold neutrons
Rotating proportional counter for detecting ultracold neutrons. (E41). 495111
- HEAD:**
See also *FACE*; *NOSE*
biomedical radiography
Radiation protection of the lens for patients and users. (C15, C60, C54). 469708
cat scanning
Approximate sagittal computer tomography of the sellar and suprasellar regions. (C61). 491275
Comparison of dosimetry and image quality in computed and conventional tomography. (C61, C15, D15). 487667
Contrast enhancement of cranial lesions in computed tomography. (C61). 473369
contrast media
Contrast enhancement of cranial lesions in computed tomography. (C61). 473369
delayed radiation effects
Dose-response relationships for female radium dial workers. (C21). 461104
injuries
Computer tomography of the brain and spectrophotometry of the CSF in cerebral concussion and contusion. (C61). 480211
neon 20 beams
Effects of high-LET neon (²⁰Ne) particle radiation on the brain, eyes and other head structures of the pocket mouse: a histological study. (C14). 482033
radiation injuries
Preliminary report of the M.D. Anderson Hospital/Texas A and M variable energy cyclotron fast-neutron therapy pilot study. (C15, C63; Comparison of effectiveness and complication rate for various irradiation techniques, tumor sites, and photon/neutron combinations). 473021
spatial dose distributions
Development of a mid-head radiation dose response function. (D15, C15, E14; Phantom determinations of neutron and γ absorbed doses in mid-brain for military applications). 470256
tomography
Comparison of dosimetry and image quality in computed and conventional tomography. (C61, C15, D15). 487667
- HEAD END PROCESSES:**
See also *CHEMICAL DECLADDING*; *DECLADDING*
specifications
Verification of the Barnwell Nuclear Fuel Plant (BNFP) mechanical headend design. (B16). 460651
- HEALING:**
eyes
Aqueous humor from traumatized eyes triggers cell division in the epithelia of cultured lenses. (C14). [Data] 472976
- HEALTH HAZARDS:**
See also *RADIATION HAZARDS*
Estimation of risk for lung cancer induced by inhaled alpha-emitting radionuclides at very low doses. (C21; Rats). 473068
air pollution
UNIDOSE - a computer program for the calculation of individual and collective doses from airborne radioactive pollutants. (F51, B33). 480950
chemical effluents
Comparative biological hazards of chemical pollutants and radiation. (C52). 466319
quality assurance
Application of quality assurance human factors and reliability principles to the prevention of major environment, safety, and health incidents. (C54, C52). 461348
radon
Radiation levels in houses built upon the waste from the handling of alum slate. (C53). [Data] 461333
reliability
Application of quality assurance human factors and reliability principles to the prevention of major environment, safety, and health incidents. (C54, C52). 461348
- HEALTH PHYSICS:**
See *RADIATION PROTECTION*
- HEALTH PHYSICS RESEARCH R.:**
See *HPRR REACTOR*
- HEART:**
See also *MYOCARDIUM*
biological radiation effects
Chronic cardiac arrhythmias produced by focused cobalt-60 gamma irradiation of the canine atria. (C14). 490950
Long term follow-up of combination chemotherapy - radiotherapy of

- Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
- biomedical radiography**
- Coronagraphy and left ventriculography in heart ischemia diagnosis. (C61). 480221
- Left ventricle of the heart on conventional lateral chest films. (C61). 491291
- Selective coronagraphy in different stages of ischemic heart diseases and congenital anomalies of coronary arteries (results of 1000 coronagraphies). (C61). 480241
- blood circulation**
- Cardiac output distribution measured with radioactive microspheres in the mouse. (C31). 476629
- blood flow**
- Cardiac imaging with tantalum-178. (C62). 487697
- Diagnostic merits of current and potential applications of single photon and positron imaging: a perspective. (C62, C31). 461406
- Evaluation of aortic regurgitation using radioisotopes. (C45). 463353
- R-wave synchronized blood-pool imaging. (C62, C61; /sup 99m/Tc-red blood cells). 487743
- Regional ejection fraction: a quantitative radionuclide index of regional left ventricular performance. (C62; /sup 99m/Tc-pertechnetate). 487712
- Reproducibility of ejection fraction and ventricular volume by gated radionuclide angiography after myocardial infarction. (C62, C31; /sup 99m/Tc-human serum albumin and /sup 99m/Tc-pertechnetate). 487741
- Use of color display for selection of left ventricular regions of interest. (C62; /sup 99m/Tc-human serum albumin). 473420
- congenital malformations**
- The radiological evaluation of atrial situs. (C61). 476775
- coronaries**
- Left ventricular function evaluated by videodensitometry in patients with coronary heart disease. (C61). 480222
- densitometers**
- Left ventricular function evaluated by videodensitometry in patients with coronary heart disease. (C61). 480222
- diagnosis**
- Application of computer to calculation of central hemodynamic parameters. (C62). 494522
- dynamic function studies**
- Cardiac imaging with tantalum-178. (C62). 487697
- Cold pressor test in detection of coronary heart-disease and cardiomyopathy using technetium-99m gated blood-pool imaging. (C62). 494567
- Detection of postinfarction left ventricular aneurysms by first pass radionuclide ventriculography using a multicrystal gamma camera. (C62). [Data] 476791
- Diagnostic merits of current and potential applications of single photon and positron imaging: a perspective. (C62, C31). 461406
- Diagnostic value of visualization of the right ventricle using thallium-201 myocardial imaging. (C62, C61, C60, C31). 487702
- Image segmentation applied to the delineation of ventricles on a series of cardiac scintigrams. (C31). 469835
- Modeling and analysis of dynamic scintigraphic data for measurement of cardiac perfusion and performance. (C62, C31). 470169
- Problems encountered in displaying a series of cardiac scintigrams. (C31). 469829
- Regional ejection fraction: a quantitative radionuclide index of regional left ventricular performance. (C62; /sup 99m/Tc-pertechnetate). 487712
- Reproducibility of ejection fraction and ventricular volume by gated radionuclide angiography after myocardial infarction. (C62, C31; /sup 99m/Tc-human serum albumin and /sup 99m/Tc-pertechnetate). 487741
- early radiation effects**
- Roentgenological changes in monkeys heart in case of acute radiation sickness and its early radiation effects. (C14). 479856
- fluoroscopy**
- Physical correlates of radiologic heart volume. (C61). 480213
- ischemia**
- Radioisotope "in vitro" and "in vivo" investigation of insulin metabolism in patients with heart ischemia. (C62). 482394
- local radiation effects**
- Experimental and clinical studies on the cardiac disturbance following irradiation of the cardiac region. (C14, C15). 472979
- radiation syndrome**
- Roentgenological changes in monkeys heart in case of acute radiation sickness and its early radiation effects. (C14). 479856
- radiocardiography**
- Radioisotope investigation of heart metabolism, functions and blood supply. (C62). 482410
- radiology**
- Left ventricle of the heart on conventional lateral chest films. (C61). 491291
- radionuclide kinetics**
- Zinc absorption and metabolism in animals. (C21; Rats, Calves, ⁶⁵Zn). 473057
- rheumatic diseases**
- Radioimmunological determination of ACTH and cortisole concentration in blood plasma in case of rheumatic heart disease. (C62). 482389
- scintiscanning**
- Comparisons of thallium scintigrams of the heart. The importance of quantitative assessment. (C62). 482368
- Digital method of correlation between the electrocardiogram and the isotopic heart study. (E41, C62). 485093
- Double myocardial scintigraphy with thallium 201 (Tl) and technetium containing pyrophosphate (PYP) in acute thrombosis. (C62). 484730
- Modeling and analysis of dynamic scintigraphic data for measurement of cardiac perfusion and performance. (C62, C31). 470169
- Nuclear medicine in the investigation of the kidneys and heart. Chapter 11. (C62). 487715
- Nuclear medicine, 1978. (C62, C61). 473404
- R-wave synchronized blood-pool imaging. (C62, C61; /sup 99m/Tc-red blood cells). 487743
- Use of color display for selection of left ventricular regions of interest. (C62; /sup 99m/Tc-human serum albumin). 473420
- volume**
- Physical correlates of radiologic heart volume. (C61). 480213
- HEAT AFFECTED ZONE:**
- ductile-brittle transitions**
- Weldability of heat resisting steels and the choice of welding technique. (B21). 469055
- welded joints**
- A method for determining the deformation behaviour of the heat affected zone (HAZ). (B22, E17). 487026
- HEAT CAPACITY:**
- See SPECIFIC HEAT
- HEAT DISSIPATION:**
- See THERMAL DIFFUSION
- HEAT EXCHANGERS:**
- See also HEAT PUMPS; IN-VESSEL HEAT EXCHANGERS
- Cooling exchanger for thermal and nuclear generator. (E22). 494902
- Various exchangers with improved performance by intake effects or cyclic transmission. (E11). [Data] 491481
- acoustic emission testing**
- Acoustic emission transducer and system. (E22). 480597
- configuration**
- Heat exchanger with vertical flexible tubes of the 'descending' type. (E11). 470298
- defects**
- Method for the detection of flaws in a tube proximate a contiguous member. (E17). 494885
- eddy current testing**
- Method for the detection of flaws in a tube proximate a contiguous member. (E17). 494885
- fabrication**
- A heat exchanger provided with tube bundle and the process for fabricating said exchanger. (E22). 470552
- fretting corrosion**
- Heat exchanger and method for its production. (E22). 480581
- gas flow**
- Hydraulic nonuniformities and "secondary flows" in a model of tube-casing heat exchanger. (E11). 480339
- in-service inspection**
- Inservice inspection of PFR secondary heat exchangers. (E35). 463675
- induction welding**
- Machine for spiral ribbing of tubes. (B12). 493712
- industrial radiography**
- Current practices for ultrasonic and radiographic examination of tubes, tube plates and tube-plate welds of tube bundles in heat exchangers. Chapter 3. (E17). 463558
- inspection**
- Examination of interior surfaces using glow-discharge illumination. (E22; Patent). 491749
- leak detectors**
- Indirect heat transfer between reactive fluids and detection of leaks inducing a mixture between these fluids. (E35; LMFBR type reactors). 491965
- leak testing**
- Process and apparatus for detecting the position of a failed tube in a tubular liquid metal-water heat exchanger. (E17). 461574
- lmfbr type reactors**
- Heat exchangers. (E35; LMFBR type reactors). 466717
- mechanical vibrations**
- Heat exchange vibration. (E11, E33). 491480
- performance**
- Tube bundle vibrations in transversal flow. (E22). 482682
- Heat exchanger design for desalination plants. (E13). 473633
- Inquiry of selected topics on heat exchanger design. (E13, E11). 480384
- physical protection devices**
- Safety appliance for a steam generator heated by liquid metal. (E35). 477292
- pipes**
- Construction within cooling system of a sodium cooler reactor. (E35). 473980
- planning**
- Design of a new compact recuperator. (E22, E33, E11). 482693
- Design of a new compact recuperator. (E22, E33, E11). 482692
- plates**
- A heat exchanger provided with plates. (E35, E32; PWR type reactors or LMFBR type reactors). 463668
- pumps**
- Exchanger pump unit for nuclear reactors. (E35). 495021
- spacers**
- Spacing tube lattice for heat exchangers. (E22). 480596
- specifications**
- A fast reactor. (E35). 466716
- Heat exchanger design for desalination plants. (E13). 473633
- Improvements in or relating to heat exchangers. (E35). 473991
- Improvements to heat exchangers with U tubes. (E11). 473609
- Inquiry of selected topics on heat exchanger design. (E13, E11). 480384
- Modular heat exchanger. (E22; Patent). 473776

- Pipe plate and assembly for heat exchanger. (E22). 463588
stress analysis
 Elastic-plastic-creep analysis of shells. (E35). 488159
 Simplified inelastic analysis in helical coil heat exchanger design. (E33; HTGR). 488103
supports
 Assembly for supporting the tubes of a heat exchanger. (E22). 494905
tubes
 Tube with helical grooves for heat transfer and its fabrication process. (E11). 491491
two-phase flow
 Two-phase flow on the shell-side of a segmentally baffled shell-and-tube heat exchanger. (E11). 487823
ultrasonic testing
 Current practices for ultrasonic and radiographic examination of tubes, tube plates and tube-plate welds of tube bundles in heat exchangers. Chapter 3. (E17). 463558
welded joints
 Heat exchanger and method for its production. (E22). 480590
 New welding method for tubes and tube plates of heat exchangers for FBRs. (E35). 482804
welding
 The evaluation of the internal bore welding process after producing approx. 20,000 tube-to-tubesheet welds. (B22). 460688
- HEAT FLOW:**
 See *HEAT TRANSFER*
- HEAT FLUX:**
 See also *CRITICAL HEAT FLUX*
- HEAT OF REACTION:**
 See *REACTION HEAT*
- HEAT OF VAPORIZATION:**
 See *VAPORIZATION HEAT*
- HEAT PIPES:**
 (Heat-transfer devices, frequently associated with thermionic converters. Not pipes for transporting hot fluids from place to place.)
performance
 Performance limits for liquid-metal heat pipes containing long adiabatic sections. (E13). [Data] 487855
potassium
 Influence of transverse magnetic field on heat transport characteristics of potassium heat pipe. (A14). [Data] 481188
temperature control
 Heat pipes for temperature control. (E42, E11). 482877
uses
 Heat pipe thermal control of slender optics probes. (E13, E30). 480386
valves
 Arrangement of heat conduits. (E11). 473608
- HEAT PUMPS:**
performance
 Performance characteristics of the HYCSOS chemical heat pump system based on rare earth transition metal AB₂ hydrides. (B23). 481868
- HEAT RESISTING ALLOYS:**
 See also *more specific entries as listed in the INIS Thesaurus*.
autoradiography
 Autoradiographic study of heat resisting alloys. (B22). 469101
chemical properties
 High temperature material problems in MHD power generation. (B23). 469386
creep
 On the mechanism of creep of heat resisting alloys. (B22). 469231
electrical properties
 High temperature material problems in MHD power generation. (B23). 469386
electron beam welding
 Fundamental studies on electron beam welding of heat-resistant superalloys for nuclear plants (Report I). Effect of welding conditions on some characteristics of weld bead. (B21, E33, B22). 469038
neutron activation analysis
 On possibility to determine oxygen in heat resisting nickel base alloy by the fast neutron activation method. (B11). 486493
nickel alloys
 Properties and new fields of application of nickelous materials. (B22, E22). 469253
- HEAT SINKS:**
nuclear power plants
 Publication of a draft safety guide by the International Atomic Energy Agency. (E30). 473844
- HEAT SOURCES (RADIOISOTOPE):**
 See *RADIOISOTOPE HEAT SOURCES*
- HEAT STORAGE:**
aquifers
 Seasonal heat storage in aquifers. (F11). 495240
- HEAT TRANSFER:**
 See also *CONVECTION; FORCED CONVECTION; NATURAL CONVECTION; RADIANT HEAT TRANSFER; THERMAL CONDUCTION*
analytical solution
 Laminar condensation heat transfer inside inclined tubes. (E11). 480343
annular space
 A Reynolds analogy solution for the heat transfer characteristics of combined Taylor vortex and axial flows. (E11). 476899
boundary conditions
 A surface approximation for quench front motion. (E11). 484823
computer calculations
 TRAWA, a transient analysis code for water reactors. (F51, E31, E32). 463831
cooling
 A surface approximation for quench front motion. (E11). 484823
dryout
 Post dryout heat transfer to R-113 upward flow in vertical tube. (E11). 476893
finns
 A note on the heat transfer in convective fins. (E11). 482550
fuel elements
 An experimental and analytical study of transient heat transfer in the region of dryout for a heated tube using Freon-12 as coolant. (E32). 482760
heat exchangers
 Present state of heat exchange and hydrodynamics in cooling NPP coolants. (E11). 487819
liquid metals
 Influence of transverse magnetic field on heat transport characteristics of potassium heat pipe. (A14). [Data] 481188
monte carlo method
 Monte Carlo functional expansion calculation of free molecular flows. (A13, A31). 489041
natural convection
 Generalization of heat-transfer results for turbulent free convection adjacent to horizontal surfaces. (E11). 476887
nonlinear problems
 Solution of linear and nonlinear matrix systems. Application to a nonlinear diffusion equation. (E11). 473613
numerical solution
 Heat and mass transfer involving droplets containing soluble solids. (E11). 480347
 Heat transfer characteristics of liquid-liquid dispersions flowing in an annulus. (E11). 480337
one-dimensional calculations
 Thin disk on a convectively cooled plate: application to heat flux measurement errors. (E11). 491486
rayleigh-taylor instability
 Boiling heat transfer and stability problems. Final report, November 1, 1976 - March 31, 1979. (E11). 491466
research programs
 Boiling heat transfer and stability problems. Final report, November 1, 1976 - March 31, 1979. (E11). 491466
roughness
 Comments on 'An investigation of heat transfer and friction for rib-roughened surfaces'. (E11). 476897
sodium
 Local heat-transfer rates to liquid sodium across a single cylinder. (2). (E11). 476902
steel-kh18n10t
 Heat transfer on cooling the turbulent N₂O₄ reversible 2NO₂ reversible 2NO + O₂ flow in a tube under conditions of the "frozen" second-stage reaction in a laminar under-layer. (E11). 487820
surfaces
 Comments on 'An investigation of heat transfer and friction for rib-roughened surfaces'. (E11). 476897
turbulent flow
 Application of the subroutine SYSTD in the analytical determination of the laws of velocity and temperature distributions for turbulent flow in air. (E11). 461498
 Generalization of heat-transfer results for turbulent free convection adjacent to horizontal surfaces. (E11). 476887
- HEAT TRANSMISSION:**
 See *HEAT TRANSFER*
- HEAT TREATMENTS:**
 See also *ANNEALING; QUENCHING*
biological effects
 Induced thermal resistance in the mouse ear. (C63). [Data] 473510
polarization
 Oxidation of zirconium alloys in molten salt of nitrate/nitrite at 350 deg C. The effect of different heat and surface treatments on the current-voltage characteristic. (B22, B15). [Data] 479459
skin
 The effect of prior heat treatment on the thermal enhancement of radiation damage in the mouse ear. (C63). [Data] 473511
- HEATED EFFLUENTS:**
 See *THERMAL EFFLUENTS*
- HEATERS:**
 See also *FEEDWATER HEATERS*
optical microscopy
 A simple heater for x-ray and microscopic study. (E13). 482564
temperature measurement
 The design of electrical heater pins to simulate transient dryout and post-dryout of water reactor fuel. (E32, E34). [Data] 482755
thermocouples
 The design of electrical heater pins to simulate transient dryout and post-dryout of water reactor fuel. (E32, E34). [Data] 482755
x-ray diffraction
 A simple heater for x-ray and microscopic study. (E13). 482564
- HEATING:**
 See also *ACOUSTIC HEATING; ADIABATIC COMPRESSION HEATING; BEAM INJECTION HEATING; DISTRICT HEATING; ECR HEATING; HIGH-FREQUENCY HEATING; ICR HEATING; JOULE HEATING; LASER-RADIATION HEATING; MAGNETIC-PUMPING HEATING; PLASMA HEATING; RADIATION HEATING; SHOCK HEATING; SPACE HEATING; TRANSIT-TIME MAGNETIC PUMPING; TURBULENT HEATING*

- radioactive materials**
The relationship between seismic velocity and radioactive heat production in crustal rocks: an exponential law. (B31). 484360
- HEAVY ION ACCELERATORS:**
See also HHIRF ACCELERATOR; HILACS; SUPERHILAC; UNILAC; VICKSI ACCELERATOR
- amp beam currents**
Heavy ion fusion. (E16, A14). 480413
- beam bunchers**
Control system for the Holifield Heavy Ion Research Facility beam buncher. (E16). 480529
- beam bunching**
Bunched beam neutralization. (E16). 476990
- beam currents**
Faraday cup. (E42, E16). 485146
- beam emittance**
Insertion of skew quadrupoles to exchange $x - x'$ and $y - y'$ phase spaces. (E16, A14). 461555
- beam extraction**
Heavy ion extraction from sector-focusing cyclotrons by the charge-exchange method. (E16). 477045
- beam injection**
500 kV mercury accelerator. (E16). 476973
- beam monitors**
Noninteractive beam position and size monitor for heavy ions. (E16). 480432
- beam neutralization**
Bunched beam neutralization. (E16). 476990
- electrical insulators**
Development of large rectangular ceramic insulators for ion accelerators for the neutral-beam program. (A14). 485792
- energy resolution**
contribution to Slac workshop on high-resolution heavy ion physics at 20-100 MeV/nucleon energies. (E16). 466539
- ion sources**
Electron cyclotron resonance (E.C.R.) multiply charged ion sources. (E16, A14). 494777
- jlin synchrotron**
Heavy ion acceleration complex. (E16; Heavy ion accelerating complex is being designed for acceleration of He ions till Cl ions). 476963
- magnetic fields**
Magnetic field of the four-meter isochronous heavy-ion cyclotron. (E16). 477044
- materials testing**
Development of large rectangular ceramic insulators for ion accelerators for the neutral-beam program. (A14). 485792
- milli amp beam currents**
Study of ICT implanter. (E16). 470373
- performance**
Low beta accelerating system for heavy ions. (E16). 476967
Present status of the Numatron project. (E16). 470415
Proposal for Dubna - Kurchatov high energy heavy-ion accelerator. (E16). 470401
- research programs**
Heavy ion fusion. (E16, A14). 480413
- reviews**
Recent advances in design for low- and medium-energy heavy ion accelerators. (E16). 491636
- rf systems**
Low-cost RF system for a 2-megahertz heavy ion linear accelerator. (E16, A14). 491660
- saturne**
Birth and next future of SATURNE II. (E16). 494876
- specifications**
Design/cost of an induction linac for heavy ions for pellet-fusion. (E16). 480451
Present status of the Numatron project. (E16). 470415
Proposal for Dubna - Kurchatov high energy heavy-ion accelerator. (E16). 470401
- storage rings**
Present status of the Numatron project. (E16). 470415
- superconducting cavity resonat**
Initial operation of the Argonne superconducting heavy-ion linac. (E16). 480509
- usv**
Development of charged particle accelerators. (E16). 487936
- vacuum systems**
Parameter selection criteria and vacuum system design principles of the synchrotron accelerators for multicharged ions. (E16). 480447
- HEAVY ION FUSION REACTIONS:**
(Endoenergetic fusion reactions)
A calculation of γ -ray spectra following α -induced fusion reactions. (A33). 460298
- argon 40 reactions**
Complete fusion and transfer reactions induced by 273 MeV ^{40}Ar on ^{139}Tb . (A34). 472234
- compound-nucleus reactions**
Fusion de-excitation process in heavy ion interactions. (A34). [Data] 493403
- evaporation model**
Shell model level densities in evaporation calculations. (A33). 475708
- fission**
Fusion de-excitation process in heavy ion interactions. (A34). [Data] 493403
- fusion yield**
Cross sections for production of transfermium elements. (A34). 481581
The velocity filter SHIP, a separator of unslowed heavy ion fusion products. (E42). 485149
- isotope production**
Cross sections for production of transfermium elements. (A34). 481581
- mass spectra**
Calculation of isotope distributions of fusion-fission products and deep inelastic transfers in heavy ion reactions. (A33). 493208
- mathematical models**
Fusion, quasi-fission and deep inelastic collisions in heavy ion reactions: limitations to cross sections. (A33; $^{12}\text{C} + ^{27}\text{Al}$; $^{40}\text{Ar} + ^{107}\text{Ag}$; $^{84}\text{Kr} + ^{209}\text{Bi}$; $^{84}\text{Kr} + ^{186}\text{W} \rightarrow ^{270}\text{110}$; $^{40}\text{Ar} + ^{238}\text{U} \rightarrow ^{278}\text{110}$). 465065
A view on reactions of complete fusion. (A33). [Data] 472151
- nuclear deformation**
Deformation energies for nuclei with different charge-to-mass ratio. (A34). 490221
- nuclear reaction kinetics**
Deep inelastic reactions with heavy ions. A probe for nuclear macrophysics studies. (A34). 460345
- trans 104 elements**
Search for volatile superheavy elements in heavy-ion reactions. (A34). 478694
- uses**
Fusion energy applications in the world's energy future. (A14). 475068
- HEAVY ION LINEAR ACCELERATORS:**
See HILACS
- HEAVY ION REACTIONS:**
See also more specific entries as listed in the INIS Thesaurus.
Abrasion-ablation calculations of large fragment yields from relativistic heavy ion reactions. (A33). 475763
Coulomb disintegration of relativistic ions. (A33). 493235
Intermediate energy heavy ions: from the low energy perspective. (A33). 468313
Large fragment production calculations in relativistic heavy-ion reactions. (A21; Abrasion-ablation model, cross sections, fireball and firebreak models). [Data] 478492
Theory of heavy-ion reactions. (A33). 483729
- angular momentum**
Dynamical birth and thermal death of angular momentum in heavy ion reactions. (A34; Collective model, 600 MeV, cross sections, J). 478753
- backscattering**
Backward glory in heavy ion scattering. (A33). 483776
- baryon-exchange models**
Simple model for nuclear alignment in peripheral nuclear collisions. (A33). 490108
- beta spectroscopy**
A kinematic Doppler correction method for high resolution in-beam conversion electron spectroscopy after (HI, xn) reactions. (E41). 485077
- bose-einstein condensation**
Hadron chemistry in heavy ion reactions. (A33). 486304
- cim model**
Infinite-momentum frame description of relativistic heavy ion processes. (A33). 478612
- collective model**
Dynamics of nuclear fission and heavy-ion reactions. (A33). [Data] 493268
- compound-nucleus reactions**
Effect of the critical angular momentum on the high spin selectivity of heavy-ion compound reactions. (A33). 465056
Multiple angular correlation between a large number of quanta in coincidence populated by heavy ion reaction. (A33). 464954
Phenomena in fast rotating heavy nuclei. (A33, A34). 465022
- coulomb excitation**
Classical-limit: S-matrix in heavy ion scattering. (A33; Probabilities). 468299
Contribution to the heavy-ion optical potential from coupling to vibrational states. (A33). 486220
Relativistic Coulomb excitation. (A33). 483813
- coulomb field**
On the Coulomb potential between heavy ions. (A33). 483766
- deep inelastic scattering**
Effect of tunneling on the one-body proximity friction. (A33). 486245
Microscopic, quantal theory of brownian motion applied to deep inelastic heavy-ion collisions. (A33). 481488
Some aspects of light particle emission accompanying collisions between heavy ions. (A33). 464984
- differential cross sections**
Induced Coulomb fission. (A33). 472186
- direct reactions**
Dynamical properties of heavy-ion reactions deduced from coupled-channels calculations. (A33). 486276
- elastic scattering**
Adiabatic and dynamic polarization effects in subcoulomb scattering. (A33). 464955
Contribution to the heavy-ion optical potential from coupling to vibrational states. (A33). 486220
Coupled-channel analysis for heavy-ion induced scattering and transfer reactions. (A33; Born, WKB, and Padé approximations, JPWKB and MARSWKB codes, transfer reactions). 460296
From heavy-ion elastic scattering to fission: A unified potential for the description of large-scale nuclear collective motion. (A33). [Data] 465017
Heavy ion folding potentials. (A33). 465023
The imaginary part of the heavy ion optical potential. (A33). 464964
Microscopic, semi-realistic interactions for both light- and heavy-ion scattering. (A33; Nucleon-nucleon potential, G matrices, review). 464984

| | | | |
|---|--------|---|--------|
| | 460313 | | |
| Molecular states in heavy ion potentials. (A33). | 465063 | | |
| Nucleus - nucleus potential. (A33; Antisymmetrization, generator - coordinate method). | 460295 | | |
| Resonance effects in fusion and transfer reactions. (A33, A34; Review). | 468350 | | |
| Semiclassical derivation of a local optical potential for heavy-ion elastic scattering. (A33). | 483745 | | |
| | | energy losses | |
| Relative motion energy dissipation in reactions with heavy ions. (A33). | 493202 | | |
| | | equations of motion | |
| Dynamics of heavy ion collisions. (A33). | 483726 | | |
| | | fermi gas model | |
| Nuclear Fermidynamics and T.D-S-H.F. (A33; Nuclear structure, heavy ion reactions). | 478627 | | |
| | | fission | |
| From heavy-ion elastic scattering to fission: A unified potential for the description of large-scale nuclear collective motion. (A33). | 465017 | | |
| [Data] | | fission products | |
| Dynamical aspects of the description of mass distributions of heavy ion reaction products. (A33). | 493207 | | |
| | | fluctuations | |
| A TI-59 model for nuclear reactions between complex nuclei. (A33). | 472211 | | |
| | | giant resonance | |
| Giant E1 mode and its energy broadening from the charge distributions in heavy-ion reactions. (A33). | 475760 | | |
| | | glauher theory | |
| Functional integral representation of Glauber theory for high-energy heavy-ion scattering. (A33). | 478633 | | |
| | | hadrons | |
| Hadron chemistry in heavy ion collisions. (A33). | 468364 | | |
| | | half-life | |
| Induced Coulomb fission. (A33). | 472186 | | |
| | | hartree-fock method | |
| Heavy-ion reactions in the light of TDHF. (A33). | 486234 | | |
| Two-body collisions and time dependent Hartree-Fock theory. (A33). | 468372 | | |
| | | heavy ion fusion reactions | |
| Classical transcription of the TDHF approximation. (A33). | 493316 | | |
| | | [Data] | |
| Dynamical properties of heavy-ion reactions deduced from coupled-channels calculations. (A33). | 486276 | | |
| From heavy-ion elastic scattering to fission: A unified potential for the description of large-scale nuclear collective motion. (A33). | 465017 | | |
| [Data] | | Low energy one-neutron transfer reactions between heavy ions. (A33). | 475742 |
| Nucleus - nucleus potential. (A33; Antisymmetrization, generator - coordinate method). | 460295 | | |
| Resonance effects in fusion and transfer reactions. (A33, A34; Review). | 468350 | | |
| Role of the conservative potential and dissipation in heavy-ion fusion. (A33; Excitation functions). | 478643 | | |
| | | hydrodynamic model | |
| Relativistic effects in heavy ion collisions. (A33). | 493210 | | |
| Shock waves in a hydrodynamic model of central heavy ion collisions. (A33). | 478615 | | |
| | | inelastic scattering | |
| Coupled-channel analysis for heavy-ion induced scattering and transfer reactions. (A33; Born, WKB, and Padé approximations, JPWKB and MARSWKB codes, transfer reactions). | 460296 | | |
| Microscopic, semi-realistic interactions for both light- and heavy-ion scattering. (A33; Nucleon - nucleon potential, G matrices, review). | 460313 | | |
| Phase correlations in heavy ion scattering. (A34). | 486392 | | |
| | | intermediate resonance | |
| A semiempirical prediction of resonances in heavy-ion reactions for s-d shell nuclei. (A34). | 468540 | | |
| | | intermediate structure | |
| A semiempirical prediction of resonances in heavy-ion reactions for s-d shell nuclei. (A34). | 468540 | | |
| | | ion density | |
| Density in a relativistic heavy ion model system consisting of two freely interpenetrating nuclei. (A33). | 472161 | | |
| | | isomeric nuclei | |
| The signature of a high-density isomeric state formed in a relativistic heavy-ion collision. (A32). | 493136 | | |
| | | isotope production | |
| Theoretical estimates for the production of transuranium elements in heavy-ion collisions. (A33). | 472203 | | |
| | | multiplicity | |
| γ-ray multiplicity in heavy ion induced reactions. (A34). | 486322 | | |
| | | nuclear alignment | |
| Simple model for nuclear alignment in peripheral nuclear collisions. (A33). | 490108 | | |
| | | nuclear emulsions | |
| Heavy ion and hadron reactions in emulsion. (A22). | 478561 | | |
| | | nuclear matter | |
| Three-dimensional calculations on the formation of density isomers in high energy heavy ion collisions. (A33). | 472210 | | |
| | | nuclear models | |
| Equilibration in nuclear matter. (A33). | 478669 | | |
| Theory of high-energy heavy-ion collisions. (A33). | 483787 | | |
| | | nuclear molecules | |
| Molecular states in heavy ion potentials. (A33). | 465063 | | |
| | | nuclear potential | |
| Contribution to the heavy-ion optical potential from coupling to vibrational states. (A33). | 486221 | | |
| Heavy ion folding potentials. (A33). | 465023 | | |
| The imaginary part of the heavy ion optical potential. (A33). | 464964 | | |
| Long range absorption and other direct reaction components in the optical potential. (A33). | 464950 | | |
| Nucleus - nucleus potential. (A33; Antisymmetrization, generator - coordinate method). | 460295 | | |
| On the energy dependence of the real part of the heavy-ion optical potential. (A33). | 483806 | | |
| On the proximity treatment of the interaction between deformed nuclei. (A33). | 478668 | | |
| | | nuclear reaction kinetics | |
| In search of high density collective phenomena in nuclear collision. (A33; 0.2 to 2.0 GeV/nucleon). | 493232 | | |
| Independent particle aspects of nuclear dynamics. (A33). | 486285 | | |
| Pion sources in relativistic heavy-ion collisions. (A33). | 486293 | | |
| Three lectures on macroscopic aspects of nuclear dynamics. (A33). | 493302 | | |
| | | nuclear structure | |
| Probing the nucleus in heavy-ion collisions. (A34). | 472237 | | |
| | | numerical solution | |
| A numerical analysis of the heavy-ion reaction based on the linear response theory. (A33). | 468404 | | |
| | | one-nucleon transfer reactions | |
| Low energy one-neutron transfer reactions between heavy ions. (A33). | 475742 | | |
| Nucleon transfer in light heavy ion reactions. (A33). | 472143 | | |
| | | optical models | |
| On the energy dependence of the real part of the heavy-ion optical potential. (A33). | 483806 | | |
| | | particle discrimination | |
| Analogue particle identifier and test unit for automatic measuring of errors. (E41, A34). | 485034 | | |
| | | particle production | |
| Relativistic heavy ions: experiments in progress and planned at the Bevalac of Berkeley. (A34). | 486385 | | |
| | | pionization | |
| Pion production with heavy ions. (A22). | 493108 | | |
| | | pions | |
| Hadron chemistry in heavy ion reactions. (A33). | 486304 | | |
| | | potential energy | |
| Potential energy surfaces for heavy ion reactions. (A33). | 493278 | | |
| | | potential scattering | |
| Central heavy ion reactions at 1 to 1000 GeV/nucleon. (A22, A33; Rapidity, central potential). | 468202 | | |
| | | precompound-nucleus emission | |
| Ambiguities in the inference of precompound emission from excitation function analysis. (A33). | 468279 | | |
| | | quantum mechanics | |
| Dynamics of heavy ion collisions. (A33). | 483726 | | |
| | | relativistic range | |
| Correlations between nucleons in high-energy nuclear collisions. (A33). | 468390 | | |
| Non-equilibrium processes in heavy-ion collisions at relativistic energies. (A33). | 468381 | | |
| Relativistic heavy ions. (A33). | 483747 | | |
| Relativistic nuclear physics. (A33, A21). | 486193 | | |
| | | research programs | |
| High energy physics studies of particle interactions and the search for new particles. Annual progress report, May 15, 1978 - May 14, 1979. (A22; Summaries of research activities at Washington University). | 475679 | | |
| Notes on the evolution of the heavy ion physics and its consequences for future. (A34). | 460344 | | |
| | | resonance | |
| A model of resonances in heavy-ion reactions as rotating-cluster phenomena. (A34). | 483913 | | |
| | | response functions | |
| The nuclear response function and dissipation in the Fermi-gas model. (A33). | 468378 | | |
| | | reviews | |
| High energy interactions of nuclei. (A33). | 468318 | | |
| What lies beyond inclusive measurements. (A33). | 468348 | | |
| | | scattering | |
| Collective effects, statistical effects and fluctuations in a model for complex collisions with many open channels. (A33). | 468371 | | |
| Coupled-channel analysis for heavy-ion scattering. (A33). | 462610 | | |
| Proximity formulae for folding potentials. (A33). | 468407 | | |
| Quantum corrections to optical potentials. (A33). | 465043 | | |
| | | self-consistent field | |
| Time-dependent self-consistent field theory for heavy-ion reactions. (A33). | 468343 | | |
| | | semiclassical approximation | |
| Quasi-classical approximation for elastic scattering of heavy ions. (A33; $^{238}\text{U} + ^{238}\text{U}$, $^{12}\text{C} + ^{58}\text{Ni}$). | 468271 | | |
| Semi-classical description of heavy ion scattering. (A33). | 483797 | | |
| Semiclassical derivation of a local optical potential for heavy-ion elastic scattering. (A33). | 483745 | | |
| | | stochastic processes | |
| Stochastic aspects of heavy-ion reactions. (A34). | 483839 | | |
| | | strong-absorption model | |
| Semiclassical approximation in the strong-absorption model for inelastic scattering. (A33; Argon 40 reactions; uranium 238 target). | 493147 | | |
| | | time dependence | |
| On the mass distribution in time-dependent Hartree-Fock calculations of heavy-ion collisions. (A33). | 468294 | | |

- Time dependent approach to nuclear reactions. (A33). 465009
total cross sections
 Calculation of phases and cross sections of scattering of heavy relativistic nuclei. (A33). 468261
transfer reactions
 Coupled-channel analysis for heavy-ion induced scattering and transfer reactions. (A33; Born, WKB, and Pade approximations, JPWKB and MARSWKB codes, transfer reactions). 460296
 Double transfer of particles in heavy ion reactions. (A34). 472286
 Resonance effects in fusion and transfer reactions. (A33, A34; Review). 468350
 Simple formulae for heavy ion subcoulomb transfer probabilities. (A33). 468277
transport theory
 Entrance-channel coherence in dissipative heavy-ion collisions and compound-nucleus formation. (A33). 472191
 On the quantum mechanical description of scattering by a dissipative and diffuse scattering centre. (A33). 486209
 Semiclassical transport theory of dissipative heavy-ion collisions. (A33). 486271
 Transport theory of dissipative heavy-ion collisions. (A33). 465037
- HEAVY IONS:**
 (Whenever appropriate use one of the specific terms listed under ION BEAMS.)
- acceleration**
 Methods of heavy particle acceleration by means of charge density waves in vacuum and plasma. (E16). 484863
autoradiography
 Microradiography of the elements emitting heavy charged particles with fine grain X-ray plates. (E41). 485083
backscattering
 Analysis of a nuclear backscattering and reaction data by the method of convolution integrals. (B11, A12, A32; BASS, in FORTRAN for IBM 360). 465261
beam bunching
 Buncher development for ORIC injection. (E16). 477033
beam transport
 Electron and ion beam transport to fusion targets. (A14). 492754
 Transport of intense particle beams with application to heavy ion fusion. (A14). 492738
collisions
 Hadron chemistry in heavy ion collisions. (A21). 468108
 Ion-induced continuum x-ray emission. (A12). 477816
cyclotrons
 Numatron project, high-energy heavy-ion accelerator. (E16). 476999
electron capture
 On a scaling of electron capture by fully ionized heavy ions in light gas targets at low MeV energies. (A12). 483223
impact parameter
 The dependence of the charge states on the impact parameter of a heavy ion in a single collision. (A12). 467259
implosions
 Nuclear fusion by cylindrical ion implosion. (A14). 483347
ion implantation
 A stochastic formulation of site populations of heavy ions implanted in metals with related problems. (A13). 471587
ion sources
 Brookhaven terminal ion source. (E16). 477029
 Characteristics of an end-extraction pig heavy ion source with cold cathode. (D14). 476845
 Operating experience with an 834 Hiconex sputter ion source. (E16). 477021
ion-atom collisions
 Cross sections for K-shell excitation in slow ion-atom collisions. (A12). 467303
 Influence of electron capture on x-ray production in heavy-ion collisions. (A12). 477710
 Theory of electron transfer and ionization. (A12). 474558
ion-ion collisions
 Positron production in heavy ion collisions. (A34). 465191
laser-produced plasma
 Laser ion sources. (A12, E16). 483148
liquid drop model
 On the charge and shape polarization of fission fragments, fusing nuclei, or scattering heavy ions near contact. (A33). 462607
nuclear deformation
 On the charge and shape polarization of fission fragments, fusing nuclei, or scattering heavy ions near contact. (A33). 462607
particle identification
 Semiconductor detectors, recent progress. (E41). 474123
particle tracks
 Diameter of tracks revealed in some polymeric detectors, and efficient range of delta rays. (C11, C55). 465880
penning ion sources
 A PIG-type heavy ion source and acceleration of heavy ions by the RCNP cyclotron. (E16). 482628
proton recoil detectors
 Measurement of the energy of heavy-ion beams by the recoil proton technique. (A22, E41). 472071
range
 Calculation of heavy ion ranges in complex media. (A32). 468249
 Imaging instrument for positron emitting heavy ion beam injection. (A32, E41, E16). 464936
rbe
 High let-irradiation of vacuillus subtilis spores. (C12). 461022
rotational states
 The decay of coherent rotational states formed in heavy-ion collision. (A34). 483899
- scattering**
 Prediction of the azimuth angle dependence of the quasimolecular anisotropy in heavy ion collisions. (A12). 488823
stopping power
 Elastic stopping of fast heavy ions by electrons in solids. (A13). 471422
- HEAVY LEPTONS:**
 See also *TAU NEUTRINOS; TAU PARTICLES*
 On the heavy leptons. (A21, A22). 462570
cosmological models
 Abundances of new stable particles produced in the early universe. (A21). 472059
decay
 On new possible lepton interactions. (A21). 493058
 $U_3(W)$ -gauge theory - IV. The Kolar events. (A21). 462568
electromagnetic interactions
 Mixing of leptons with different quantum numbers in gauge theories of weak and electromagnetic interactions. (A21). 464868
electron-positron interactions
 Search for new particles. (A21). 468021
leptonic decay
 Anomalous electron-muon and electron-hadron production in electron-positron annihilation. (A21; Branching ratio). [Data] 478468
 Current investigations in electron-positron annihilation. (A21). 478408
 $e\mu$ signal as heavy lepton signature at PEP. (A22). 472086
 Leptonic decay of heavy leptons. (A21). 486107
mass formulae
 Lepton mass formula. (A21). 486013
neutrino detection
 Production and detection of new neutrinos. (A21). 475552
particle discrimination
 $e\mu$ signal as heavy lepton signature at PEP. (A22). 472086
particle production
 Characteristics of possible neutral-heavy-lepton production in muon reactions. (A21). 486006
 Heavy-particle production by cosmic rays. (A15, A21). [Data] 464594
 Production and detection of new neutrinos. (A21). 475552
 Recent results from neutrino interactions in heavy neon. (A22). 468158
 Use of $\Delta\phi$ -angle test to rule out neutral heavy leptons. (A22). 486114
 Weak interaction of sequential heavy leptons and mixing with the $SU(n)$ group. (A21). 486011
particle structure
 The muon magnetic moment in a model of lepton structure. (A21). 483659
semileptonic decay
 Anomalous electron-muon and electron-hadron production in electron-positron annihilation. (A21; Branching ratio). [Data] 478468
spin orientation
 Study of heavy-lepton polarization in e^+e^- annihilation at the Z^0 pole. (A21). 468069
weak interactions
 Mixing of leptons with different quantum numbers in gauge theories of weak and electromagnetic interactions. (A21). 464868
 Weak interaction of sequential heavy leptons and mixing with the $SU(n)$ group. (A21). 486011
weak particle decay
 Weak decays. (A21; Review, lecture). 468147
- HEAVY NUCLEI:**
 (For nuclei from mass 181 upwards; for specific terms, consult the APPENDIX.)
- alpha decay**
 Contributions to the theory of alpha disintegration of heavy and superheavy nuclei. (A33). 460318
alpha reactions
 Alpha scattering by heavy nuclei. (A33). 468305
angular momentum
 Rotation effect on collective properties of atomic nuclei. (A33). 486262
beta-plus decay
 Ratio of electron capture to positron emission in heavy nuclei. (A33; nuclear structure effects, form factors). 486259
binding energy
 Shell corrections to the semiempirical formulas for masses and root-mean-square radii of nuclei. (A33; $76 < Z < 90$ ($120 < N < 130$); $110 < Z < 120$ ($174 < N < 188$)). 462602
electron capture decay
 Ratio of electron capture to positron emission in heavy nuclei. (A33; nuclear structure effects, form factors). 486259
energy levels
 Spin-dependent components of effective quasi particle interaction and states of the anomalous parity. (A33; ^{16}O , ^{40}Ca , ^{208}Pb). 493295
energy spectra
 Influence of the lower $SU(3)$ representations on the spectral properties of heavy deformed nuclei. (A33). 468349
energy-level density
 Role of collective effects in systematics of neutron resonance parameters. (A33). 468331
excitation
 Orientation of a nucleus excited in the positron annihilation on the heavy atom shell. (A33). 493225
fission fragments
 Gamma ray analysis and the fission process in heavy nuclei. (A33, A34). 486301

- gamma spectra**
Gamma ray analysis and the fission process in heavy nuclei. (A33, A34). 486301
- giant resonance**
Excitation of the giant monopole resonance by protons of about 60 Mev. (A33). 468403
- ground states**
Ambiguities about infinite nuclear matter. (A33). 481480
- high spin states**
Probability of excitation of high-spin states in the capture of π -mesons by nuclei. (A33). 464986
- internal conversion**
Internal conversion coefficients for E5 and M5 nuclear transitions, $30 < Z < 104$. (A34). 468439
- multipole transitions**
Internal conversion coefficients for E5 and M5 nuclear transitions, $30 < Z < 104$. (A34). 468439
- neutrino reactions**
Lepton pair production at neutrino scattering by nuclei. (A21). 464749
- neutron reactions**
Some results of experimental investigations into the interaction of s-, p-, and d-neutrons with atomic nuclei. (A34, A33). [Data] 468513
- nuclear radii**
Shell corrections to the semiempirical formulas for masses and root-mean-square radii of nuclei. (A33; $76 < Z < 90$ ($120 < N < 130$); $110 < Z < 120$ ($174 < N < 188$)). 462602
- oriented nuclei**
Orientation of a nucleus excited in the positron annihilation on the heavy atom shell. (A33). 493225
- pion minus reactions**
Probability of excitation of high-spin states in the capture of π -mesons by nuclei. (A33). 464986
- proton reactions**
Neutron formation from sup(7)Li, sup(9)Be, sup(10,11)B, sup(12)C, sup(16)O, sup(19)F, sup(24,25,26)Mg, sup(27)Al, sup(40,44)Ca, Cu, sup(116,124)Sn, sup(181)Ta, Pb nuclei with 1 GeV protons. (A34). 493363
- simulation**
Small helium droplets as analogs of heavy nuclei. (A17, A33; Meson physics, roton-like impurity interactions, change dependence on particle number). 471960
- strength functions**
Description of neutron and radiation strength functions in the quasiparticle-phonon model of nuclei. (A33). [Data] 468417
- targets**
Measurement of the surface mass of a heavy element thin target in the presence of light elements. (B11). 483956
- HEAVY WATER:**
- biological effects**
Inactivation of Neurospora crassa conidia by singlet molecular oxygen generated by a photosensitized reaction. (C12; uv radiation). 487196
- canada**
Peak power and heavy water production from nuclear electrolytic H_2 and O_2 in Canada. (D12). [Data] 473552
- computer calculations**
A computer code DUEKER for D_2O scattering cross section. (F51). 471184
- corrosion**
Accumulation of radioactive corrosion products in nuclear steam generators. (E34, B15). 480663
- cosmic radiation**
A search for heavy stable particles. (A22). 468210
- critical temperature**
Effect of D_2O on the lower critical solution temperature of triethylamine in water. (B12). [Data] 486605
- electric conductivity**
Adsorption of alcohols and water on alumina. 3. dc conductivity and dielectric loss measurements. (B12). 486585
- excretion**
Incorporation of organically bound tritium (OBT) of food or tritium (OBT) of food or tritiated water (TW) into fetuses, placentas and some tissues of pregnant rat. (C21). [Data] 479955
- ionization**
The standard enthalpy of ionization of water at 298 K from calorimetric measurements on iodine pentoxide. (B12). 460450
- Thermodynamics of ionization of D_2O and $D_2PO_4^-$. (B12). [Data] 472451**
- ionization potential**
Electroionization of D_2O and H_2O and study of fragments H^+ and OH^+ . (A12). [Data] 462131
- isotope production**
Exchange reaction tower of multiple stage type. (D12). 470225
- management**
Heavy water management at the Rajasthan Atomic Power Station. (E34). 470732
- microstructure**
A neutron diffraction study of the structure of heavy water at pressure using a new high-pressure cell. (A13). 477924
- neutron diffraction**
A neutron diffraction study of the structure of heavy water at pressure using a new high-pressure cell. (A13). 477924
- production**
Hydrogen isotope separation. (D12, D13; Patent). 473553
- Method for heavy-water production by H_2S-H_2O chemical exchange process. (D12; Patent). 466441
- Process for the exchange of hydrogen isotopes using a catalyst packed bed assembly. (D12; Patent). 466439
- proton transport**
Determination of deuterium fraction in heavy water by proton chemical shifts. (B11). 490292
- purification**
Heavy water management at the Rajasthan Atomic Power Station. (E34). 470732
- quantitative chemical analysis**
The analysis of highly concentrated heavy water by means of NMR spectrometer Tesla BS487C. (B11; Determination of H_2O in D_2O). 462677
- Simplified HT-HTO in air measurement system. (B11). 493479
- radiolysis**
Behaviour of high-grade tritiated water in a closed system. Storage application. (B13). [Data] 472491
- radionuclide kinetics**
Incorporation of organically bound tritium (OBT) of food or tritium (OBT) of food or tritiated water (TW) into fetuses, placentas and some tissues of pregnant rat. (C21). [Data] 479955
- scattering**
A computer code DUEKER for D_2O scattering cross section. (F51). 471184
- separation processes**
Radioactive off-gas separator. (E51). 495195
- tritium**
Removal of tritium. (D13). 491394
- volatility**
The influence of addition of inorganic carbonates on the relative volatility factor of light and heavy water at temperatures close to the isotope effect inversion temperature. (B12). [Data] 462741
- HEAVY WATER COOLANT:**
See HEAVY WATER
- HEAVY WATER COOLED REACTORS:**
See also ALRR REACTOR; ATUCHA REACTOR; CP-5 REACTOR; DIDO REACTOR; EL-3 REACTOR; FR-2 REACTOR; GENTILLY-2 REACTOR; GRENOBLE REACTOR; HBWR REACTOR; HFBR REACTOR; HIFAR REACTOR; JRR-2 REACTOR; JRR-3 REACTOR; KALPAKKAM-2 REACTOR; MZFR REACTOR; NARORA-1 REACTOR; NARORA-2 REACTOR; NRU REACTOR; NRX REACTOR; PHWR TYPE REACTORS; R-4 REACTOR; RAJASTHAN-1 REACTOR; RAJASTHAN-2 REACTOR
Power reactors '78. (E30; Annual directory of data on the world's power reactors). 466647
- reactor operation**
Method of varying power of reactor. (E31). 477199
- recommendations**
Design guide for category II reactors light and heavy water cooled reactors. (F22, E36; US DOE). 474352
- specifications**
Design guide for category II reactors light and heavy water cooled reactors. (F22, E36; US DOE). 474352
- HEAVY WATER GCR OF CZECHOSLOVA:**
See BOHUNICE A-1 REACTOR
- HEAVY WATER MOD./WATER COOL. R:**
See HWLWR TYPE REACTORS
- HEAVY WATER MODERATED REACTORS:**
See also more specific entries as listed in the INIS Thesaurus.
Power reactors '78. (E30; Annual directory of data on the world's power reactors). 466647
- failed element detection**
Operating experience in the detection and location of damaged fuel elements at the Atucha Nuclear Power Station. (E23, E33). 477138
- fuel cycle**
Fuel cycle cost studies: fabrication, reprocessing, and refabrication of LWR, SSCR, HWR, LMFBR, and HTGR fuels. (F12, B16). 466917
- fuel element clusters**
Method for savings in nuclear reactors by using beryllium rods in fuel bundles. (E23; Patent). 480604
- reactor control systems**
Power control device for heavy water moderated reactor. (E24). 491803
- HEAVY WATER MODERATOR:**
See HEAVY WATER
- HEAVY WATER PLANTS:**
- chemical effluents**
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). 480090
- dual temperature process**
Amine process for heavy water. (D12). 484774
- methylamine**
Amine process for heavy water. (D12). 484774
- HECTORITE:**
See MONTMORILLONITE
- HEIDA:**
- oxidation**
Investigation into vanadium(V) reaction with β -hydroxyethyliminodiacetic acid. (B12). 490411
- HEISENBERG MODEL:**
- correlation functions**
Linear chain of classical Heisenberg spins with three or four spin interactions. (A13). 492574
- electrodynamics**
Electrodynamics of the planar model: Its phase diagram, continuum limit, and mass spectrum. (A11). 477632
- magnons**
Nuclear spin-magnon relaxation in two-dimensional Heisenberg antiferromagnets. (A13). 459839

- o groups**
- The quantum mechanics of the gauge-invariant O(2) Heisenberg model. (A11). 483034
- Strong-coupling expansions and phase diagrams for the O(2), O(3), and O(4) Heisenberg spin systems in two dimensions. (A11). 488623
- phase diagrams**
- Strong-coupling expansions and phase diagrams for the O(2), O(3), and O(4) Heisenberg spin systems in two dimensions. (A11). 488623
- strong-coupling model**
- Strong-coupling expansions and phase diagrams for the O(2), O(3), and O(4) Heisenberg spin systems in two dimensions. (A11). 488623
- variational methods**
- Study of the features of a pair approximation for the resolution of the Heisenberg model. (A11). 471236
- HEISENBERG PICTURE:**
- adiabatic invariance**
- Semiclassical quantization of nonseparable systems. (A11). 463898
- bell theorem**
- Whiteheadian approach to quantum theory and the generalized bell's theorem. (A11). 477678
- equations of motion**
- Semiclassical quantization of nonseparable systems. (A11). 463898
- HEISENBERG PRINCIPLE:**
- See UNCERTAINTY PRINCIPLE
- HEISENBERG REPRESENTATION:**
- See HEISENBERG PICTURE
- HELA CELLS:**
- biological radiation effects**
- Action of caffeine on x-irradiated HeLa cells. III. enhancement of x-ray-induced killing during G₂ arrest. (C11). 460953
- Mapping of RNA initiation sites by high doses of uv irradiation: evidence for three independent promoters within the left 11% of the Ad-2 genome. (C12). 479805
- cell killing**
- Interphase death of HeLa Zh-63 cells induced by high doses of γ -radiation. (C11). 484442
- cytological techniques**
- Nuclear thread bridging the sister cells prior to radiation-induced cell fusion. (C11; X rays; HeLa cells; marsupial kidney cells). 479778
- genes**
- The histone genes in HeLa cells are on individual transcriptional units. (C11). [Data] 481983
- radiosensitivity**
- Changes in the sensitivity of HeLa cells after split doses of X-rays. (C11). [Data] 490908
- DNA damage in synchronized hela cells irradiated with ultraviolet. (C11, C31; Sensitivity in different cell cycle stages could be due solely to differences in chromatin geometry). 460963
- HELICAL INSTABILITY:**
- Plasma stability control in a toroidal system by feedback and HF fields. (A14). [Data] 464292
- feedback**
- Suppression of the tokamak internal helical mode $m=1$ by a feed back system. (A14). 492794
- tokamak devices**
- Suppression of the tokamak internal helical mode $m=1$ by a feed back system. (A14). 492794
- HELICITY:**
- conservation laws**
- Chou-Yang model and s-channel helicity conservation. (A21). 489909
- The covariant nature of helicity conservation. (A11). 471214
- s channel**
- The covariant nature of helicity conservation. (A11). 471214
- HELIOTRON:**
- Heliotron E project. (A14). 489273
- high-frequency heating**
- Shear Alfvén wave heating experiments in Heliotron D. (A14). 464433
- plasma**
- RF heating experiments on Heliotron devices and analysis of equilibrium and stability of straight helical Heliotron plasma. (A14). [Data] 464503
- rf systems**
- RF heating experiments on Heliotron devices and analysis of equilibrium and stability of straight helical Heliotron plasma. (A14). [Data] 464503
- HELIUM:**
- Effect of tritium on the low temperature yield stress of niobium. (B22). 460698
- affinity**
- Electron affinity of helium ($1s2s$) 3S . (A12). 463957
- afterglow**
- Correlations between elementary mechanisms and electron energy in ionised helium in relaxation regime. (A12). 471368
- atom-atom collisions**
- Calculations of He(2 \supset 1,3/5)+H ionization cross sections using ab initio potentials and widths derived from Siegert eigenvalues. (A12). 488837
- Collision-induced atomic dipole moments. (A12). [Data] 463945
- Collisional depopulation of excited Na s states by He, Ar, and Xe. (A12). 488806
- Crossed-beam determination of energy dependence of fine-structure transitions in K(4P)-He collisions. (A12). 492522
- Differential-excitation studies of quasi-one-electron systems. (A12). 492510
- Experimental determination of the Cs(7S)-rare-gas potential energy curves and of the 6S-7S collision-induced oscillator strengths. (A12). [Data] 474653
- Foreign-gas-induced relaxation of Rydberg S and D states in atomic sodium. (A12). 477737
- Helium 3 3S decay rates in a high-pressure afterglow. (A12, A14). 467245
- An improved scattering potential for He*(2^3S) + Ar. (A12). 483219
- Long-range helium excimer potentials (A.C. Σ^+ /sub u/g and a.c. Σ^+ /sub u/g) from high-resolution differential cross sections for He(2 $^1S, 2^3S$) + He. (A12). 488775
- Relation between low-energy electron scattering and l-changing collisions of Rydberg atoms. (A12). 474591
- Resonances in the scattering of atoms and molecules. (A12). 488919
- Slow electron and ground state helium scattering on metastable helium (2^3S_1). (A12). 463993
- Temperature effect on the collision-induced emission of S(1S) with He, Ar, N₂, H₂, Kr, and Xe. (A12). 485408
- Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092
- Velocity dependence of the absolute total ionization cross section for collisions of argon atoms with singlet and triplet metastable helium atoms. (A12). 467345
- atom-molecule collisions**
- Collisional energy dependence of molecular ionization by metastable rare gas atoms. (A12). [Data] 464039
- De-excitation of excited rare-gas atoms as studied by a pulse radiolysis method. (B14). 472519
- DWBA calculations of relaxation and kinetic cross sections. III. (A12). 467247
- Resonances in the scattering of atoms and molecules. (A12). 488919
- Rotational energy sudden approximation in vibrationally inelastic collisions. (A12). [Data] 464082
- Scattering of thermal He beams by crossed atomic and molecular beams. IV. Spherically symmetric intermolecular potentials for He+CH₄, NH₃, H₂O, SF₆. (A12). 467313
- Solution of the coupled equations of inelastic atom-molecule scattering for a single initial state. (A12). [Data] 464102
- Theoretical analysis of inelastic molecular collisions: applications to atom-diatom systems relevant to laser operation. (A12; Cross sections, relaxation rates). 485440
- Threshold behavior of vibrationally inelastic cross sections. (A12). 467246
- The use of rotationally and orbitally adiabatic basis functions to calculate rotational excitation cross sections for atom-molecule collisions. (A12). 483202
- Vibrational relaxation in He-CO and He-HF: a unitary distorted-wave approach. (A12). 459729
- Vibrational-rotational relaxation from high vibrational states in He-HD. (A12). 464100
- atomic beam diffraction**
- Diffraction of helium atoms by the basal (0001) face of graphite: a study of bound state resonances. (A13). 467369
- auger effect**
- Studies in the electronic structure of matter. (A12, A13, B24). [Data] 474627
- autoionization**
- Autoionisation states of helium isoelectronic sequence below the $n = 3$ hydrogenic thresholds. (A12). [Data] 481026
- Complex-coordinate studies of helium autoionizing resonances. (A12). 464047
- Decay of autoionization states stimulated by collision with a charged particle. (A12). 474621
- Energy and angular variation of electrons ejected from autoionization states of helium by electron impact. (A12). 467274
- Energy spectra of ejected electrons in autoionization of helium by electron impact. (A12). 467318
- balmer lines**
- Anomalous shifts of hydrogen Balmer- α fine structure lines in helium. (A12). 471411
- boiling**
- Boiling and free convection heat transfer to helium in centrifugal acceleration fields. (A17). 464724
- Boiling in liquid nitrogen and liquid helium. The unstable region. (E11, A17). 491465
- breakdown**
- Breakdown of He-gas by alternating electric field near ion cyclotron frequency. (A14). 464424
- Laser-induced gas breakdown at cyclotron resonance: low pressure results. (A14). 483311
- Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
- closed-cycle cooling systems**
- A compact helium turbo-refrigerator with regenerators. (E12). 484838
- collisions**
- A collisional-radiative model for helium and its application to a discharge plasma. (A14). 489161
- Diffraction of a beam of monoenergetic helium atoms from the (001) face of nickel oxide. (A12). [Data] 481014
- Reactive and nonreactive scattering of modulated molecular beams from well characterized platinum single crystal surfaces. (A12; Mechanism, rainbow scattering, angular distribution). [Data] 477742
- Temperature dependence of alignment production in He I by beam-foil excitation. (A12). 474582
- compatibility**
- Compatibility considerations for the use of solid breeders. (A14, B22). 485680

- convection
Boiling and free convection heat transfer to helium in centrifugal acceleration fields. (A17). 464724
- coolant cleanup systems
Helium purifiers. (E12). 491524
- coolant loops
Oxford rotating helium rig. (E12). 484825
- cosmochemistry
Chemical composition of galactic and extragalactic H II regions. (A15). 460076
- cryostats
A nuclear demagnetization cryostat for cooling ^3He . (E12). 463525
- cyclotron resonance
Laser-induced gas breakdown at cyclotron resonance: low pressure results. (A14). 483311
- de-excitation
Pulse radiolysis studies of the de-excitation processes of excited rare gas atoms. (A12). [Data] 488824
- differential cross sections
Excitation of $^1\text{S}(1s,3s)$ state of helium by electron impact in the Glauber approximation. (A12). [Data] 481046
- diffraction
Atomic beam diffraction and scattering from A (3 + - 5) W (110) - carbide surface. (A12). 485415
- dipole moments
Collision-induced atomic dipole moments. (A12). [Data] 463945
- elastic scattering
High-energy approximation for atom - surface elastic scattering. (A12). 474611
- electric discharges
Experimental study on the moving striations in a magnetized positive column in helium. (A12). 471351
Maximum constriction phase of a weakly ionized discharge in helium. (A14). 489295
- electron capture
Electron capture in $\text{N}^{2+}\text{-He}$ and $\text{N}^{2+}\text{-Ne}$ collisions. (A12). 464078
Modified binary-encounter calculations for electron capture from noble-gas atoms by He^+ ions. (A12). 488859
Modified binary-encounter calculations for electron capture from noble-gas atoms by protons. (A12). 488891
- electron collisions
complex-coordinate studies of helium autoionizing resonances. (A12). 464047
- electron correlation
Visualization of electron correlation in a series of helium S states. (A12). 483212
- electron emission
Energy and angular variation of electrons ejected from autoionization states of helium by electron impact. (A12). 467274
Energy spectra of ejected electrons in autoionization of helium by electron impact. (A12). 467318
- electron spectra
Studies of post-collision interactions for electrons ejected from autoionising levels of helium excited by low-energy electrons. (A12). 488759
- electron-atom collisions
(e, 2e) collisions. (A12). 488926
Accurate e-He cross sections below 19 eV. (A12). 471375
Alignment and orientation parameters for excitation of the ground state of helium to the 2^1P state by 81 eV electrons. (A12). [Data] 462113
Analysis of low-energy scattering cross sections. (A12). [Data] 471397
Anisotropy and time dependence in atomic collisions. (A12). 477780
Application of an extremum principle to the variational determination of the generalized oscillator strengths of helium and hydrogen atom in intense magnetic fields. (A12, A15; Cross sections). 485549
Coherent excitation of the 2^1P state of He for large momentum transfer electron scattering. (A12). [Data] 462124
Comment on a recent fast beam measurement of the electron impact ionisation cross sections of He, C, O and N atoms. (A12). 488867
Comment on the resonances near the $n = 3$ threshold in e-He scattering. (A12). [Data] 463930
Correlations of excited electrons. (A12). 485441
Differential cross sections for the excitation of the 2^1S and 2^1P states in helium by electron impact. (A12). 467324
Doubly differential cross sections of secondary electrons ejected from gases by electron impact. 50 - 300 eV on helium. (A12). 464089
Electron energy calibrations in the Culham crossed-beams experiments: a reply to the letter of Maerk and de Heer. (A12). 488820
Electron impact excitation of the $(2p^2)^3\text{P}$ doubly excited state of helium. (A12). 492550
Electron-impact excitation of $n < 2$ levels of helium at intermediate energies. (A12). 485406
An improved second Born calculation of e-He elastic scattering at intermediate energies. (A12). 459723
An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
Measurements of the electron impact ionisation cross sections of He, C, O and N atoms. (A12, A14). 462102
Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
New experimental study of multiple ionization in noble gases by electron and photon impact. (A12). 485520
A phaseshift analysis of experimental angular distributions of electrons elastically scattered from He, Ne and Ar over the range 0.5 to 20 eV. (A12). [Data] 474678
R-matrix calculation of low-energy e-He scattering. (A12). [Data] 462139
Selected topics from the theory of electron - atom and atom - atom collisions. (A12). 459756
Slow electron and ground state helium scattering on metastable helium (2^1S_0). (A12). 463993
Stieltjes-moment-theory technique for calculating resonance widths. (A12). 463996
- electron-molecule collisions
R-matrix calculations for electron-molecule scattering. (A12). 483146
- electronic structure
Atomic energy-level and Grotrian diagrams. (A12). 483138
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for $1 < \text{or } = Z < \text{or } = 4$. (A12). 464110
Excited atomic and molecular states in strong electromagnetic fields. (A12). 483139
Self-trapping of electrons and positrons in dense helium gas: a simple variational model. (A12, A13). 463965
Series solutions and the variational principle. (A12). 467293
Variational method for the Hartree equation of the helium atom. (A12). 471315
- embrittlement
A model for the high-temperature embrittlement of metals containing helium. (B25). 490749
- emission spectra
ASTRO-6: helium resonance radiation observations with a black brant IVb rocket. (A15). 483515
Intensity enhancement on the wavelength of the He I 5876 Å emission observed at high latitude. (B33). [Data] 484404
Simultaneous measurements of $\text{Ca}^+ \text{K}$, $\text{Ca}^+ \text{H}$, Hg , $\text{H}\beta$, and He D_3 emission in prominences. (A15). 467944
- energy levels
Alignment, orientation, and the beam - foil interaction. (A12, A32). 471387
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
Beam foil investigation of energy level characteristics of xenon and helium. (A12). [Data] 492548
Many-body scattering theory methods as a basis for molecular structure calculations. (A12). 464034
Simple extended STO basis sets. helium. (A12). 464064
Study of cascade excitation and lifetimes of He I levels using magnetic and electric depolarization techniques. (A12). 464061
Theoretical studies in atomic structure. (A12; Nuclear charge expansion perturbation method, Hartree-Fock functions, resonances, doubly excited states). 467297
- energy-level transitions
Electron temperature measurements in low density plasmas by helium spectroscopy II - Parameter limits for validity of different methods. (A14). [Data] 478002
The helium atom radiation in electrical field. (A12). 463992
Pade approximant formulas for atomic oscillator strengths. (A12). 463967
Temperature dependence of alignment production in He I by beam-foil excitation. (A12). 474582
Temperature dependence of the beam-foil interaction. (A12). 467205
- enthalpy
Experimental study of thermally-induced flow oscillations in supercritical helium. (E11). 487817
- evaporation
Better LHe withdrawal from a liquefier. (E12). 463523
Heat analysis and reduction of evaporation rate from a liquid helium dewar. (E12). 491518
- excitation
Alignment and orientation parameters for excitation of the ground state of helium to the 2^1P state by 81 eV electrons. (A12). [Data] 462113
The Bethe approximation: where to draw the line. (A12). 481025
Curve-crossing trajectories. Vibronic excitation in $\text{N}_2^+ - \text{He}$. (B12). 486614
Electron impact excitation of the 2^1S state of helium at intermediate energies. (A12). 474585
Excitation of $^1\text{S}(1s,3s)$ state of helium by electron impact in the Glauber approximation. (A12). [Data] 481046
Interactions of atoms with solid surfaces: nonadiabatic mechanism for the production of excited state hydrogen and helium atoms at a metal surface. (A12, B22; Surface-interaction potential model, time dependent Schroedinger equation, semiclassical approximation). 467176
The $1^1\text{S} \rightarrow 2^1\text{S}$ and $1^1\text{S} \rightarrow 1^1\text{P}$ excitation of helium by electron impact. (A12). 477738
- excited states
Correlations of excited electrons. (A12). 485441
The dipole approximation and the classification of the doubly excited states of helium atom. (A12). 464057
- fine structure
Magnetic and electric fine structure in helium Rydberg states. (A12). 485421
- fluid flow
Flow characteristics of forced-flow Bn_3Sn conductors for toroidal-field coils. (A14, B22). 489206
Pressure and temperature oscillations of flowing helium. (A17). 489699
- fluorescence spectroscopy
Model potential calculations of the Na-He system. (A12). [Data] 462121

- gas analysis**
Trace impurity analyzer. (E16, E12). 477060
- giant resonance**
Giant dipole resonance in ^4He with noncentral forces and target-recoil corrections. (A33). 468323
- glow discharges**
Rapid formation of He_2^+ sub(u) and $\text{h}^+\text{nsub(g)}$ molecules in a high-pressure He discharge. (A12). 459747
- hartree-fock method**
Variational method for the Hartree equation of the helium atom. (A12). 488753
Variational method for the Hartree equation of the helium atom. (A12). 471315
- heat exchangers**
A counterflow gas-liquid helium heat exchanger with copper grid. (E12). 491500
- heat transfer**
Boiling in liquid nitrogen and liquid helium. The unstable region. (E11, A17). 491465
Heat analysis and reduction of evaporation rate from a liquid helium dewar. (E12). 491518
Practical data on steady state heat transport in superfluid helium at atmospheric pressure. (E11). [Data] 461493
Transient heat transfer to liquid helium from bare copper surfaces. (E11, A17). 470293
- impurities**
Chemical equilibrium of impurity gas reaction in high-temperature helium for material tests. (B15). 481753
- incompressible flow**
Experimental study of thermally-induced flow oscillations in supercritical helium. (E11). 487817
- interatomic forces**
Born-Mayer type molybdenum-helium and helium-helium interaction potentials, fitted to the results of the helium desorption experiments. (A12). 488826
Diffusion in flowing gas. (A12). 485214
H atom-rare gas interaction potentials from an electron gas model. (A12). 459719
Monte Carlo calculation of the Born-Oppenheimer potential between two helium atoms using Hylleraas-type electronic wave functions. (A12; Expectation values, standard deviations). 471325
- intermolecular forces**
Application of the statistical method in the theory of intermolecular interactions. (A12). 464024
Symmetry-adapted double-perturbation analysis of intramolecular correlation effects in weak intermolecular interactions. (A12). 488913
- ion mobility**
Low-temperature mobility of positive ions in helium vapour. (A13). 481158
- ion-atom collisions**
Angular correlation between autoionization electrons and scattered ions in slow He $^+$ /He collisions. (A12). 464015
Anisotropy and time dependence in atomic collisions. (A12). 477780
Calculations of proton-impact excitation of helium using the Glauber approximation. (A12). 474661
Collisional excitation of simple systems. (A12; keV range, cross sections). [Data] 477806
Differential cross sections for charge transfer and excitation in low-energy Be $^+$ -He, Ne collisions. (A12). [Data] 462140
Differential cross sections for the production of H atoms in collisional electron detachment of H $^+$ ions on He, H, and H $_2$ targets. (A12). 464032
Differential-excitation studies of quasi-one-electron systems. (A12). 492511
- Double differential cross sections for charge exchange processes. (A12). 467276
Double K-shell electron capture for ion-atom collisions at intermediate energies. (A12). 477775
Dynamics of the reaction $\text{H}_2^+(\text{He}, \text{H})\text{HeH}^+$. Influence of various forms of reactant energy on the total and differential cross section. (A12). 483238
Effect of target distortion on electron detachment differential cross section for H $^+$ + He and H $^+$ + H collisions. (A12). 464033
Elastic and inelastic scattering of He $^+$ by He in the energetic and angular ranges 5 to 50 keV and 0.5 to 3 degrees. (A12). [Data] 471318
Electron capture in N $^{2+}$ -He and N $^{2+}$ -Ne collisions. (A12). 464078
Energy-loss spectra of product ions in electron capture. (A12). [Data] 462150
- [Data]**
Many-electron aspects of molecular promotion in ion-atom collisions: Production of core-excited states of Li in Li $^+$ -He collisions. (A12). 474578
Multiple-ionisation cross sections for highly stripped ions colliding with He, Ne and Ar. (A12). 477801
Observation of mixed-parity electric-dipole oscillations in charge transfer to the $n = 2$ hydrogen levels by fast protons in gases. (A12). 474654
Outer-shell excitations of Zn II levels in Zn $^{n+}$ -He, Ne, Ar, Kr collisions. (A12). 488748
p-state alignment of one- and two-electron oxygen ions excited by collisions in helium. (A12). 474577
Projectile Auger spectra of gas- and foil-excited oxygen ions at MeV energies. (A12). 463956
Resonant charge transfer in He $^+$ -He collisions studied with the merging-beams technique. (A12). 467295
Resonant contributions to single charge transfer between He $^{2+}$ and He. (A12). 485397
Scaling of cross sections for K-electron capture by high-energy protons and alpha-particles from the multielectron atoms. (A12).
- Selected topics from the theory of electron-atom and atom-atom collisions. (A12). 467283
Technical progress report, October 1, 1977-September 30, 1978. (A12). [Data] 474681
Theoretical study of two-electron excitation in $\text{Asup}(\text{Z}^+) + \text{Asup}(\text{Z}-2) + \text{X}(\text{issup}(2))$ collisions. (A12). 464023
X-ray production by electron excitation, ionization, and capture for F $^{\text{sup}} \text{q}/+$ ($\text{q} < 1-9$) ions in collisions with a He gas target. (A12). 485537
Yield spectrum for protons impacting on helium. (A12). 463998
- ion-ion collisions**
Theoretical study of two-electron excitation in $\text{Asup}(\text{Z}^+) + \text{Asup}(\text{Z}-2) + \text{X}(\text{issup}(2))$ collisions. (A12). 464023
- ionization**
Cross sections for the ionisation of helium by electron impact in a distorted-wave model. (A12). [Data] 471320
Distorted-wave approximations for the triple-differential cross section for ionisation of helium by electron impact. (A12). 462101
Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
Measurements of the electron impact ionisation cross sections of He, C, O and N atoms. (A12, A14). 462102
Partial cross sections and branching ratios near isolated resonances. (A12). 464020
Threshold ionization region in inert gases. (A12). 463973
- ionization potential**
Multiphoton ionization potentials for H and He atoms in intense circularly polarized laser beams. (A12). 477791
Virtual scaling corrections to Koopmans' ionization potential in positive ions of He, Ne, and Ar series. (A12). 467306
- isoelectronic atoms**
Finite-difference solution to the Schrodinger equation for the helium isoelectronic sequence. (A12). 459735
- jets**
Benzene and diethyl sulphide in a gas jet transport system. (A34, E42). 490211
- kinetic energy**
Application of the statistical method in the theory of intermolecular interactions. (A12). 464024
- knock-out reactions**
Knock-out of non-nucleonic components from helium. (A22). 489955
- lambda point**
Corrections to dynamic scaling for the lambda transition in liquid helium. (A17). 489686
- laser-produced plasma**
Contribution to the study of the plasmas created by ultra-short optical breakdown in gases. (A14). 471648
Debye-length discrimination of nonlinear laser forces acting on electrons in tenuous plasmas. (A14). 478000
- level indicators**
A floating level indicator for liquid helium. (E12). 463533
- line broadening**
Broadening of highly excited levels of He by He atoms in ground state. (A12). 467256
The width of the Na D2 resonance line (λ 5890) in atmospheres of helium and neon and atomic hydrogen. (A12). [Data] 481009
- liquefaction**
Optimization of helium refrigerators and liquefiers for large superconducting systems. (E12). 491515
Use of warm ejectors in helium refrigerators. (E12). 484834
- liquid flow**
Superconducting A.C. generators. Some recent experimental investigations. (E12). 484835
- materials handling**
Better liquid helium withdrawal from a liquefier. (E12). 491505
- materials testing**
HELITEX - a test facility for large-scale cooling experiments with liquid helium. (E12). 491517
- mesic atoms**
Calculation of He and Li neutral mesic atoms. (A12; μ^- , π^- , K^- , p^-). 463947
- molecular models**
Efimov states and bound state properties in selected nuclear and molecular three-body systems. (A33, A12). 460293
- molecule-molecule collisions**
Model potential calculations of the Na-He system. (A12). [Data] 462121
- monazites**
Development of a process for recovery of helium from monazite sand. (B24). 481876
- muon reactions**
Nuclear recoil effects on the polarization of spin-1/2 particles. (A33). 478628
- natural convection**
Heat transport with helium in rotating thermosiphon loops. (E12, E11). 484829
Modified correlation for heat transfer by natural convection to liquid helium in the high speed rotating frame. (A17). 483607
- oscillator strengths**
Application of an extremum principle to the variational determination of the generalized oscillator strengths of helium and hydrogen atom in intense magnetic fields. (A12, A15; Cross sections). 485549
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
Pade approximant formulas for atomic oscillator strengths. (A12). 463967

- p states**
 Autoionisation states of helium isoelectronic sequence below the $n = 3$ hydrogenic thresholds. (A12). [Data] 481026
 Coherent excitation of the 2^1P state of He for large momentum transfer electron scattering. (A12). [Data] 462124
 Electron impact excitation of the $(2p^2)^1P$ doubly excited state of helium. (A12). 492550
 Electron impact excitation of the 2^1P and 2^3S levels of helium. (A12). [Data] 462098
 Resonance photoabsorption of the helium atom in the vicinity of the $(3s3p)^1P$ resonance. (A12). [Data] 471389
penning effect
 The temperature dependence of Penning ionization electron energy spectra: He(2^1S)-Ar, N₂, NO, O₂, N₂O, CO₂. (A12). 471349
phase shift
 The $1s$ epsilon p^3P triplet continuum and the photoionisation of the $1s2s^3S$ state of helium. (A12). [Data] 481048
photoionization
 complex-coordinate studies of helium autoionizing resonances. (A12). 464047
 Multiple photoionisation in the rare gases from threshold to 280 eV. (A12). 492535
 New experimental study of multiple ionization in noble gases by electron and photon impact. (A12). 485520
 Photoionization of He in the state $4p^1P_1$. (A12). 463943
 Recent progress in the study of photoionization processes of atomic species by electron spectroscopy using synchrotron radiation. (A12). 459709
 Resonance photoabsorption of the helium atom in the vicinity of the $(3s3p)^1P$ resonance. (A12). [Data] 471389
 The $1s$ epsilon p^3P triplet continuum and the photoionisation of the $1s2s^3S$ state of helium. (A12). [Data] 481048
photon-atom collisions
 Measurement of x-ray scattering cross sections of hydrogen and helium with synchrotron radiation. (A12; 5 to 7 keV, total and differential cross sections, polarization). 471350
plasma
 Relaxation of atmospheric pressure helium plasmas. (A14). [Data] 462297
polarizability
 Concerning the anisotropy of the helium diatom polarizability. (A12). 477740
positron collisions
 Theoretical study of the differential positronium cross section with helium and argon targets. (A12). 467210
positron-atom collisions
 An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
potential energy
 Accurate intermolecular potential for helium. (A12). 477704
 An improved scattering potential for He(2^1S) + Ar. (A12). 483219
production
 Development of a process for recovery of helium from monazite sand. (B24). 481876
pumps
 Better liquid helium withdrawal from a liquefier. (E12). 491505
purification
 Helium purifiers. (E12). 491524
quark model
 Atomic spectral lines in helium containing a quark in the nucleus. (A12). 488834
radiations
 A collisional-radiative model for helium and its application to a discharge plasma. (A14). 489161
raman spectra
 Concerning the anisotropy of the helium diatom polarizability. (A12). 477740
reflection
 Specular reflection of helium and hydrogen molecular beams from the (111) plane of silver. (A13). 459783
refrigeration
 A compact helium turbo-refrigerator with regenerators. (E12). 484838
 Exergy method of analysis and its application to a helium cryorefrigerator. (E12). 476909
 Optimization of helium refrigerators and liquefiers for large superconducting systems. (E12). 491515
 Performance of a liquid helium refrigerator operated above the critical temperature. (E12). 491508
 Use of warm ejectors in helium refrigerators. (E12). 484834
rydberg correction
 Rydberg series of atomic He by opto-galvanic spectroscopy. (A12). 483184
s states
 Autoionisation states of helium isoelectronic sequence below the $n = 3$ hydrogenic thresholds. (A12). [Data] 481026
 Differential cross section calculation for excitation by electrons of the helium 4^1S and 4^3S states. (A12). 471380
 Electron impact excitation of the 2^1P and 2^3S levels of helium. (A12). [Data] 462098
 Visualization of electron correlation in a series of helium S states. (A12). 483212
scattering lengths
 Measurement of coherent neutron scattering lengths of gases. (A12). [Data] 483181
schrödinger equation
 Finite-difference solution to the Schrödinger equation for the helium isoelectronic sequence. (A12). 459735
- solids**
 Singularities in temperature and time dependences of charge motion in solid helium. (A13). 492612
solubility
 Solubility of helium in metallic hydrogen. (A13, A15). 471565
sound waves
 Nonlinear first sound response of liquid helium at 1, 3 and 10 MHz. (A17). 471962
spin orientation
 Angular variation in the orientation of He atoms and Ar⁺ ions produced in a beam-tilted-foil experiment. (A12). 462143
stark effect
 Investigation of the structure of the HeI 4^3D , 3^1F-2^3P ($\lambda = 447.15$ nm, $\lambda = 447.0$ nm) spectral line emitted from a low pressure plasma. (A14). 471630
superfluidity
 Statistical thermodynamics of superfluid helium confined to a cuboidal enclosure below 0.5 K. (A17). 489716
 Superfluidity in helium films. (A17). 489708
thermal conductivity
 Thermal conductivity of the helium-argon system. (B24). 487004
thermal efficiency
 Exergy method of analysis and its application to a helium cryorefrigerator. (E12). 476909
thermodynamic properties
 Sound velocity and equation-of-state measurements in high pressure fluid and solid helium. (B24; No data). 490695
 Thermodynamic properties of helium in the range from 20 to 1500°C and 1 to 100 bar. Reactor core design of high-temperature gas-cooled reactors. Pt. 1. (B12, E33). [Data] 468773
townsend discharge
 Experimental and theoretical study of the electron cascade induced in a gas by laser light. (A12). 471360
two-phase flow
 A large superconducting dipole cooled by forced circulation of two phase helium. (E12). 482559
vacancies
 Random coalescence of helium vacancies in a lattice. (B25). 472784
van der waals forces
 Quasiclassical trajectory study of vibrational predissociation of van der Waals molecules: Collinear Hexxxl₂(B $^1\Pi$). (A12). 488928
vibrational states
 Rapid formation of He₂ $a^1\Sigma^+$ sub(u) and $b^1\Pi$ sub(g) molecules in a high-pressure He discharge. (A12). 459747
wave functions
 Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for $1 < \text{or} = Z < \text{or} = 4$. (A12). 464110
HELIUM BURNING:
 (Astrophysical processes only.)
 Helium flash with superadiabatic convection. (A15). 460142
HELIUM COMPOUNDS:
 See also HELIUM HYDRIDES; HELIUM TRITIDES
HELIUM COOLED REACTORS:
 See also AVR REACTOR; DRAGON REACTOR; EGCR REACTOR; PEACH BOTTOM-1 REACTOR; THTR-300 REACTOR
coolant cleanup systems
 Nuclear reactor where a cooling fluid is flown through the core and other parts able to induce an unacceptable pollution of said fluid. (E35; shield corrosion protection in helium cooled fast reactors). 463683
france
 Gas cooled reactor experience and programs in France. (E33). 482778
htr reactor
 Prospects for the high-temperature reactor. (E33). 491934
nuclear power plants
 Prospects for the high-temperature reactor. (E33). 491934
shields
 Nuclear reactor where a cooling fluid is flown through the core and other parts able to induce an unacceptable pollution of said fluid. (E35; shield corrosion protection in helium cooled fast reactors). 463683
HELIUM DILUTION REFRIGERATION:
demagnetization
 Nuclear demagnetisation experiments with the aid of precooling by PrCu₂. (A17). 462510
helium 3
 The ^3He - ^4He dilution refrigerator through which ^4He is circulated and cooling by compression of the ^3He in the mixing chamber of this refrigerator. (A17). 462515
helium 4
 The ^3He - ^4He dilution refrigerator through which ^4He is circulated and cooling by compression of the ^3He in the mixing chamber of this refrigerator. (A17). 462515
thermodynamics
 Properties of the double mixing chamber dilution refrigerator. (E12). 463531
ultralow temperature
 Conventional cycle dilution refrigeration down to 2.0 mK. (A17). 462505
 Dilution refrigeration with a double mixing chamber. (E12). 463527
HELIUM HYDRIDES:
autoionization
 Calculation of Siegert eigenvalues for molecular systems: results for He(2^1^3S) + H. (A12). 477761
electronic structure
 Extrapolation in configuration interaction calculations using perturbation theory natural orbitals: Applications to H₂O and HeH₂⁺. (A12). 488882

- Nuclear excitations and reaction mechanisms. Report of progress November 1, 1977 - October 31, 1978. (A33, A12; Summaries of research activities at Brown Univ.). [Data] 478608
- Reduced bessel functions as atomic orbitals: some mathematical aspects and an LCAO-MO treatment of HeH^{2+} . (A12). 464095
- energy levels**
- Convergence of one-center partial wave treatments for diatomic molecules. II. Heteronuclear one-electron diatomic molecules using the 1s sigma, 2s sigma, 3s sigma, 2p sigma, 3d sigma, and 3p sigma states of HeH^{2+} as models. (A12). 463929
- Electronic structure of HeH_2^+ . (A12; Correlations, valence, Rydberg states). 464001
- excited states**
- Ground- and lower excited-state discrete ab initio electronic potential-energy surfaces for doublet HeH_2^+ . (A12). [Data] 464042
- ground states**
- Ground- and lower excited-state discrete ab initio electronic potential-energy surfaces for doublet HeH_2^+ . (A12). [Data] 464042
- Pairwise-correlated generalized valence bond model of electronic structure. V. A multiconfiguration overlap approximation for GVB pair energies. (A12; Exploratory studies). 464066
- interatomic forces**
- Approximation of potential-energy functions for two-center systems. (A12). 463939
- ion-atom collisions**
- Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). [Data] 464012
- molecular structure**
- Many-body scattering theory methods as a basis for molecular structure calculations. (A12). 464034
- partial waves**
- Convergence of one-center partial wave treatments for diatomic molecules. II. Heteronuclear one-electron diatomic molecules using the 1s sigma, 2s sigma, 3s sigma, 2p sigma, 3d sigma, and 3p sigma states of HeH^{2+} as models. (A12). 463929
- variational methods**
- Calculation of Siegert eigenvalues for molecular systems: results for $\text{He}(2^1\text{S}) + \text{H}$. (A12). 477761
- HELIUM I:**
- critical heat flux**
- Critical boiling, vapor block, and prospects for single-sweep training of superconducting solenoids. (E12). 494698
- dispersion relations**
- The concave nature of the energy spectrum of liquid ^4He at very low-wave numbers. (A17). 462521
- film boiling**
- Heat transfer crises in liquid helium. (E11, E12). 473618
- nucleate boiling**
- Heat transfer crises in liquid helium. (E11, E12). 473618
- phonons**
- The concave nature of the energy spectrum of liquid ^4He at very low-wave numbers. (A17). 462521
- population density**
- Relaxation times for establishing steady state populations in optically thin helium plasmas. (A14). 483351
- stark effect**
- Observation of ion dynamics in the He I 4026A Stark profile. (A14). [Data] 471634
- thermal diffusion**
- Passage of intense short thermal pulses through liquid helium. (A17). 493033
- HELIUM II:**
- binding energy**
- Effective potential and Bogoliubov transformation for liquid helium. (A17). 493029
- bose-einstein condensation**
- Density fluctuation spectrum of superfluid ^4He at finite temperatures. (A17). 489691
- bound state**
- Two-roton bound state in He_2 . (A17, A13). 493025
- boundary layers**
- Calculation of the static healing length in helium II. (A17). 475490
- capillary flow**
- Mutual friction in the laminar flow of superfluid helium II through capillary tubes. (A17). 489690
- cooling systems**
- A counterflow gas-liquid helium heat exchanger with copper grid. (E12). 491500
- correlated-particle models**
- Microscopic theory of two-dimensional liquid helium. (A17). 489693
- cryostats**
- The behaviour of superfluid helium in zero gravity. (A17). 478386
- Evaluation of porous-plug liquid separators for space super-fluid helium systems. (E12). 480365
- de-excitation**
- Multiphonon boundary of the excitation spectrum in He_2 . (A17). 493032
- density**
- Calculation of the static healing length in helium II. (A17). 475490
- dewar flasks**
- A cryogenic helium II system for spacelab. (E12). 480373
- droplets**
- Small helium droplets as analogs of heavy nuclei. (A17, A33; Meson physics, roton-like impurity interactions, change dependence on particle number). 471960
- electric potential**
- Effective potential and Bogoliubov transformation for liquid helium. (A17). 493029
- evaporation**
- The evaporation of He II through narrow channels. (A17, E11). 478375
- fifth sound**
- Fifth sound in superfluid ^4He and ^3He - ^4He mixtures. (A17). 486000
- film boiling**
- Analysis of helium II film boiling. (E11, E12). 482543
- Heat transfer crises in liquid helium. (E11, E12). 473618
- Recovery heat flux from silent and noisy film boiling states in saturated liquid He II. (E11, A17). [Data] 470297
- Size and orientation effects on free convection film boiling from flat surfaces immersed in saturated He II. (A17, E11). 478371
- film flow**
- Film thinning in unsaturated superfluid ^4He films during persistent flow. (A17). 481332
- ground states**
- Variational calculation of ground-state properties of a binary boson system: Properties of dilute mixtures of ^3He atoms in superfluid ^4He . (A17). 481344
- heat transfer**
- Axial heat transport through an annular duct with rotating inner cylinder. (A17, E11). 478392
- Heat transport in a long tube of He II. (A17, E11). 478394
- Recovery heat flux from silent and noisy film boiling states in saturated liquid He II. (E11, A17). [Data] 470297
- Steady state heat transport in superfluid helium at 1 bar. (A17, E11). 478372
- Transient heat transport in He II. (E11, E12). 482553
- impurities**
- Excitation spectrum of a ^3He atom moving in He II at zero temperature. (A17). 467983
- kapitza resistance**
- Kapitza resistance: axiomatic acoustic mismatch theory with loss. (A17). 464733
- lambda point**
- On the velocity dependence of the superfluid density of helium II near the lambda-point. (A17). 460152
- laminar flow**
- Mutual friction in the laminar flow of superfluid helium II through capillary tubes. (A17). 489690
- line broadening**
- Study of the plasma broadening of spectral lines of hydrogenic ions. (A14). [Data] 471680
- magnetic fields**
- Solutions of $\text{He}^1\text{-HeII}$ in a magnetic field. (A17). 478370
- natural convection**
- Size and orientation effects on free convection film boiling from flat surfaces immersed in saturated He II. (A17, E11). 478371
- neutron diffraction**
- Analysis of line shapes observed in the scattering of thermal neutrons from superfluid ^4He . (A17). 464735
- nucleate boiling**
- Heat transfer crises in liquid helium. (E11, E12). 473618
- phase studies**
- Triple-phase phenomena during quenches of superconductors cooled by pressurized superfluid helium II. (E12). 491506
- phase transformations**
- Spontaneous acceleration of slowly rotating helium II - A manifestation of a phase transition in the system of macroscopic quantum vortices. (A17). [Data] 464708
- Superfluidity and phase separation in helium films. (A17). 481328
- Triple-phase phenomena during quenches of superconductors cooled by pressurized superfluid helium II. (E12). 491506
- phonons**
- Ballistic-phonon-pulse transmission through the interface between solid sapphire - liquid He II at $T = 0.25\text{ K}$. (A17). 489709
- Further complexities in the dispersion of phonons in liquid helium. (A13). 489008
- Multiphonon boundary of the excitation spectrum in He_2 . (A17). 493032
- population density**
- Relaxation times for establishing steady state populations in optically thin helium plasmas. (A14). 483351
- raman spectra**
- Interpretation of Raman experiments in superfluid ^4He . (A17). 481335
- rotation**
- Collective oscillations of the vortex lattice in He 2. (A17). 485996
- rotons**
- Analysis of line shapes observed in the scattering of thermal neutrons from superfluid ^4He . (A17). 464735
- Interpretation of Raman experiments in superfluid ^4He . (A17). 481335
- New theory of superfluid ^4He . (A17). 489703
- Roton-roton interactions and the thermodynamic properties of He II. (A17). 467978
- Two-roton bound state in He_2 . (A17, A13). 493025
- second sound**
- A fast response superconducting thin-film probe for detection of second-sound shock waves in superfluid helium. (E12). 470314
- A fast-response superconducting thin-film probe for detection of second-sound shock waves in superfluid helium. (E12, E42). 491502
- spatial distribution**
- Comment on temperature variations near a surface in He II. (A17). 481336
- superfluidity**
- Helmholtz-resonator measurements of the superfluid density of liquid ^4He in submicrometer-diameter channels. (A17). 485976
- On the velocity dependence of the superfluid density of helium II

- near the lambda-point. (A17). 460152
 Superflow dissipation in liquid helium II near the lambda point. (A17). 478395
- surface properties**
 Comment on temperature variations near a surface in He II. (A17). 481336
- thermal diffusion**
 Passage of intense short thermal pulses through liquid helium. (A17). 493033
- thermodynamic properties**
 Microscopic theory of two-dimensional liquid helium. (A17). 489693
- translocation**
 A cryogenic helium II system for spacelab. (E12). 480373
- turbulence**
 Penetration of superfluid turbulence through porous filters. (A17). 478379
- valves**
 An emergency cold valve operating in He II. (E12). 491501
- vapor separators**
 Evaluation of porous-plug liquid separators for space super-fluid helium systems. (E12). 480365
- velocity**
 Behavior of persistent currents under conditions of strong decay. (A17). [Data] 464713
- vortex flow**
 Dynamics of vortex pairs in superfluid films. (A17). 464706
 Turbulence in helium II counterflow in wide channels. (A17; Vortex line density variations). [Data] 478374
- vortices**
 Possible influence of thermal rotons on vortex nucleation by negative ions in pressurized HeII below 1 K. (A13). 489055
 Spontaneous acceleration of slowly rotating helium II - A manifestation of a phase transition in the system of macroscopic quantum vortices. (A17). [Data] 464708
- wave functions**
 New theory of superfluid ^4He . (A17). 489703
- HELIUM IONS:**
 See also ALPHA PARTICLES
- atom collisions**
 Temperature dependence of the beam-foil interaction. (A12). 467205
- backscattering**
 Computer simulation of the angular dependence of backscattering of low energy noble gas ions from single crystal surfaces. (A13). 471530
- Ion beam analysis of surface modifications in tokamaks.** (A14). 459970
- Ion microanalysis and implantation applied to fusion surface research.** (A14). 460013
- balmer lines**
 The Balmer 9 and Balmer 11 lines of He II in the Sun. (A15). 483559
- beam production**
 Accelerator system for producing two-component beams for studies of interactive surface effects. (E16). 466541
- charge-exchange reactions**
 Charge-transfer reaction rate coefficients for He^+ and Ne^+ with Ar at 300 K. (A12). 488841
- collisions**
 Sputtering of uranium. (A12, B25; Yields, H^+ and He^+ ions, 13 to 120 keV, angular distributions). 459731
- decay**
 Decay models for highly excited states of He^+ . (A12). 488758
- electron capture**
 Modified binary-encounter calculations for electron capture from noble-gas atoms by He^+ ions. (A12). 488859
- Relaxation of atmospheric pressure helium plasmas.** (A14). [Data] 462297
- electron loss**
 One electron loss cross sections of fast He^+ ions. (A12). 467155
- electron-ion collisions**
 Electron impact excitation of hydrogenic ions in a modified Coulomb-Glauber approximation. (A12). 488905
- Stieltjes-moment-theory technique for calculating resonance widths.** (A12). 463996
- energy levels**
 Alignment, orientation, and the beam-foil interaction. (A12, A32). 471387
- energy losses**
 Measurements of anti W for protons, helium-4 ions, and carbon-12 ions in tissue-equivalent gas. (A32; 0.15 to 2.8 MeV protons, 0.36 to 7.8 MeV He^+ , and 0.12 to 5.6 MeV C^+). 460271
- excitation**
 First-order Coulomb exchange approximation and electron impact excitation of ground-state hydrogenic ions to an arbitrary s state. (A12). 474657
- intermolecular forces**
 Asymptotic behavior of the primitive function of different "symmetry-adapted" perturbation schemes for the H_2^+ ground state. (A12). 464030
- ion channeling**
 Computer simulation of channelling measurements on V_5Si single crystals. (A13). 471477
- Optical excitation of He projectiles during reflection at a monocrystalline surface under channeling conditions.** (A13). 467478
- X-ray and Rutherford backscattering yields from channeled helium ions in GaAs.** (A13). [Data] 471531
- ion collisions**
 Potential scattering of charged particles in the field of a low-frequency laser. (A12). 467264
- ion dosimetry**
 Biophysical aspects of the Space Radiation Effects Laboratory (SREL) 710-MeV helium ion beam: physical measurements and dosimetry. (D15, E16). [Data] 473572
- ion implantation**
 Observation of overpressurized bubbles in helium-irradiated Al films. (A13). 474734
- On depth profiling of hydrogen and helium isotopes and its application to ion-implantation studies.** (A13). 467371
- ion mobility**
 The mobility of He^+ ions in He. (A12). [Data] 471395
- ion sources**
 Direct production of $^3\text{He}^+(2\text{S})$ ions with an rf ion source and nuclear polarization. (A12). 488906
- ion-atom collisions**
 Atomic excitations in He^+ and H^+ reflection from a metal surface. (A13). 492593
- Classical four-body calculations of $^4\text{He}^+ + \text{H}$ and $\text{H} + \text{H}^+$ collisions.** (A12). 488762
- Differential cross sections for ionization of argon by 0.3 - 2-MeV He^{2+} and He^+ ions.** (A12). 488918
- Double K-shell electron capture for ion-atom collisions at intermediate energies.** (A12). 477775
- Elastic and inelastic scattering of He^+ by He in the energetic and angular ranges 5 to 50 keV and 0.5 to 3 degrees.** (A12). [Data] 471318
- Inner-shell-electron capture by H^+ , He^{2+} , and Li^{3+} projectiles from CH_4 , Ne, and Ar.** (A12). 485513
- Investigation of the spontaneous ionisation mechanisms in slow collisions of He^+ with Ca and Ba, and of Ne^+ with Ba.** (A12). 477760
- Resonant charge transfer in $\text{He}^+\text{-He}$ collisions studied with the merging-beams technique.** (A12). 467295
- Resonant contributions to single charge transfer between He^{2+} and He.** (A12). 485397
- Scaling of cross sections for K-electron capture by high-energy protons and alpha-particles from the multielectron atoms.** (A12). 467283
- Surface-hopping trajectory calculations of collision-induced dissociation processes with and without charge transfer.** (A12). 483188
- Systematics of the average L-shell ionization probability in K-shell ionizing collisions by light ions.** (A12). 477840
- Theory of inelastic atomic and molecular collisions.** (A12; Excitation, symmetry). 463933
- ion-ion collisions**
 Charge transfer in proton-positive-ion collisions producing hydrogen atoms in any arbitrary p state. (A12). 483218
- Electron capture by protons from some hydrogen-like ions.** (A12). [Data] 471371
- ion-molecule collisions**
 Thermal energy charge transfer from He^+ to O_2 : Kinetic energy, nature, and reactivity of the O^+ product ions. (A12). 477785
- lande factor**
 Measurement of the g-factor of $\text{sup}(4)\text{Hesup}(+) (1\text{sup}(2)\text{Ssub}(1/2))$. (A12). 464074
- let**
 Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- Theoretical analysis of the LET dependence of transient yields observed in pulse radiolysis with ion beams.** (B14, C11). [Data] 472535
- metastable states**
 Calculations of atomic electron affinities. (A12). 471323
- multiple scattering**
 Multiple scattering of MeV light ions through thin amorphous anodic SiO_2 layers formed on silicon single crystals. (A32). 490033
- Reflection of helium ions from polycrystalline platinum.** (A13). 489023
- oxygen enhancement ratio**
 Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- photoionization**
 Two-channel relativistic random-phase approximation applied to the photoionisation of helium- and beryllium-like ions. (A12). 474614
- polarization**
 Asymptotic behavior of the primitive function of different "symmetry-adapted" perturbation schemes for the H_2^+ ground state. (A12). 464030
- population inversion**
 Conditions for population inversion of hydrogen-like ions. (A14). [Data] 489296
- potential scattering**
 Potential scattering of charged particles in the field of a low-frequency laser. (A12). 467264
- range**
 Range profiles of 300- and 475-eV $^4\text{He}^+$ ions and the diffusivity of ^4He in tungsten. (B22, A32). [Data] 469327
- rbe**
 Dosimetry and radiobiology of negative pions and heavy ions. (C63). 491373
- RBE as a function of depth in a 650 MeV He^{2+} beam determined for growth delay in Vicia faba and for induction of chromosome aberrations in Allium cepa.** (C13). [Data] 461028
- Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction.** (C14, C63, C15). 487212
- small angle scattering**
 Small angle backscattering of hydrogen, deuterium, helium and neon from single and polycrystalline nickel. (A13). [Data] 471472

- spectra**
- Anomalous intensity ratios of the resonance to intercombination lines of He-like ions in Nd- and CO₂-laser-produced plasmas. (A14). [Data] 474962
- stopping power**
- Electronic stopping cross sections of 50–300-keV He and Li ions. (A32). 478590
- Stopping powers of Ag and Au for 0.3–2.0-MeV ⁴He ions. (A32). 468244
- HELIUM ISOTOPES:**
See also *HELIUM I; HELIUM II; HELIUM 3; HELIUM 3 A; HELIUM 3 B; HELIUM 4; HELIUM 7*
- hypernuclei**
- Hypernuclei. (A22). 468205
- HELIUM METHOD:**
See *ISOTOPE DATING*
- HELIUM TRITIDES:**
- hot atom chemistry**
- Interaction of energetic tritium with silicon carbide. (B13). 472476
- HELIUM 3:**
See also *HELIUM 3 A; HELIUM 3 B*
- adiabatic demagnetization**
- Nuclear refrigeration of liquid ³He. (A17). 462517
- antiferromagnetism**
- A model analysis on magnetism of solid ³He. (A17). 462514
- atom-atom collisions**
- Metastability exchange in a mixture of helium isotopes. (A12). 464113
- bcc lattices**
- Magnetic ordering of four particle exchange model in BCC ³He. (A17). 462511
- binary mixtures**
- Evaporation and condensation mechanism in ³He-⁴He mixture systems. (A17). 483604
- Structure factor of liquid ³He-⁴He mixture. (A17). 489710
- Thermal transport properties in a ³He-⁴He mixture near and below the superfluid transition. (A17). 475492
- binding energy**
- Charge-dependent three-body force and Coulomb energy difference of ³He-³H. (A34). 475860
- Nuclear charge asymmetry in the A = 3 nuclei. (A33). [Data] 468406
- Realistic interactions and variational calculations of the ground state properties of three body systems in a harmonic oscillator basis. (A33). [Data] 468374
- Validity and accuracy of separable potentials in three-body calculations. (A33). 475764
- bound state**
- Formalism for including the Δ(1236) resonance in bound trinucleon systems. (A33). 478632
- carrier mobility**
- On peculiarities of charge motion in solid helium. (A13). 488971
- charge density**
- Leptonic probes of nuclear densities. (A33; Critical review). 486270
- cosmochemistry**
- Probable detection of interstellar ³He and its significance. (A15). [Data] 464650
- coupling constants**
- Asymptotic normalization of the triton D state. (A33). 486242
- cryostats**
- Technical helium-3 cryostats for different capacities. (E12). 491512
- d states**
- ³He D-state effects in (d, ³He) reactions. (A34). 465210
- electromagnetic form factors**
- Electromagnetic processes in three-nucleon systems. (A33, A34). 468345
- Realistic interactions and variational calculations of the ground state properties of three body systems in a harmonic oscillator basis. (A33). [Data] 468374
- electron reactions**
- Effect of the nuclear structure of He⁺ and H⁺ on their complete electrodissintegration cross section. (A33). 465062
- energy levels**
- ²H(p,γ)³He reaction using polarized and unpolarized protons. (A34). 475844
- equations of state**
- Phase diagram and concentration susceptibility of ³He-⁴He mixtures near the tricritical point. (A17). 485988
- Thermodynamics of dilute gases: application to submonolayer He films. (A11). [Data] 485374
- excitation**
- Dynamical structure factor and elementary excitations in liquid He³. (A17). [Data] 481341
- Excitation spectrum of a ³He atom moving in He II at zero temperature. (A17). 467983
- fifth sound**
- Fifth sound in superfluid ⁴He and ³He-⁴He mixtures. (A17). 486000
- frenkel defects**
- Possible existence of bound state Frenkel vacancies in solid ³He. (A13). [Data] 462259
- gev range 100-1000**
- Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- ginzburg-landau theory**
- Solutions to the Ginzburg-Landau equations for planar textures in superfluid ³He. (A17). 467984
- heat transfer**
- Transport properties between helium and CMN in the mK range. (A17). 462503
- helium dilution refrigeration**
- The ³He-⁴He dilution refrigerator through which ⁴He is circulated and cooling by compression of the ³He in the mixing chamber of this refrigerator. (A17). 462515
- inelastic scattering**
- Neutron scattering studies of normal state liquid helium-3. (A13). 481157
- ion emission**
- Optional positioning of field emitters for ion injection in liquid helium. (E21, A13). 491705
- ion mobility**
- Positive-ion mobility in dilute solutions of ⁴He in ³He. (A17). [Data] 464729
- isothermal processes**
- Thermodynamics of dilute gases: application to submonolayer He films. (A11). [Data] 485374
- kapitza resistance**
- The effect of surface spin waves on the magnetic Kapitza conductance between liquid He³ and an ordered ferromagnet. (A13). 492599
- Magnetic boundary coupling between liquid ³He and antiferromagnets. (A17). 462526
- kinetic equations**
- Microscopic derivation of kinetic equation for superfluid ³He. (A17). 462508
- magnetic fields**
- Solutions of He³-HeII in a magnetic field. (A17). 478370
- magnetic susceptibility**
- Differential osmotic pressure measurements of the concentration susceptibility of liquid ³He/⁴He mixtures near the lambda curve and tricritical point. (A17). 481334
- A double bundle nuclear demagnetization refrigerator for cooling ³He. (E12, A17). 480374
- Nuclear susceptibility of solid ³He. (A17). 462520
- Progress toward understanding magnetic ordering in solid ³He. (A13). 464116
- Thermodynamic study of magnetically ordered solid ³He. (A13). 459779
- magnetization**
- Measurement of the static magnetization of solid ³He through the ordering temperature. (A17). 462523
- melting points**
- Measurement of ³He melting curve using La-CMN thermometer. (A17). 462506
- mobility**
- The equivalence of temperature and velocity in determining the non-linear positive ionic motion in normal liquid ³He. (A13). 485564
- multipole transitions**
- Trinucleon photoeffect: Isospin 1/2. (A33). 475754
- muon reactions**
- Negative muon capture in ³He. (A33). 462620
- nuclear magnetic resonance**
- Experimental observations on superfluid ³He in fine capillaries. (A17). 462496
- nuclear radii**
- Realistic interactions and variational calculations of the ground state properties of three body systems in a harmonic oscillator basis. (A33). [Data] 468374
- nuclear reaction yield**
- Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200
- Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- nuclear structure**
- Few-body systems and electromagnetic interactions. (A33). 468380
- osmosis**
- Measurements of the osmotic pressure in liquid mixtures of ³He and ⁴He near the lambda line and tricritical point. (A17). [Data] 485985
- particle production**
- Back-angle production of light ions from 720-MeV α-nucleus collisions. (A34). 475852
- phase diagrams**
- Magnetic thermometry to below one millikelvin with lanthanum-diluted cerium magnesium nitrate. (E12, A17). [Data] 466492
- phase transformations**
- Phase diagram and concentration susceptibility of ³He-⁴He mixtures near the tricritical point. (A17). 485988
- photonuclear reactions**
- Trinucleon photoeffect: Isospin 1/2. (A33). 475754
- pion-nucleon interactions**
- On application of Watson series in πA-scattering near to the Δ(1236) resonance. (A33). 490064
- pionic atoms**
- π⁺ photoproduction near threshold on ³He. (A34, A12). 490119
- quantity ratio**
- Measurements of the osmotic pressure in liquid mixtures of ³He and ⁴He near the lambda line and tricritical point. (A17). [Data] 485985
- relaxation**
- A double bundle nuclear demagnetization refrigerator for cooling ³He. (E12, A17). 480374
- s states**
- Suppression of the isospin-1/2, three-body photodisintegration of ³He. (A33). 465020
- scattering lengths**
- Measurement of coherent neutron scattering lengths of gases. (A12). [Data] 483181

| | |
|--|--------|
| second sound | |
| Second sound absorption in superfluid solutions of ^3He - ^4He . (A17). | 489681 |
| solidification | |
| Nucleation of solid from the adsorbed ^3He film and application to off-melting curve Pomeranchuk cooling. (A17). | 462497 |
| solids | |
| Measurement of the static magnetization of solid ^3He through the ordering temperature. (A17). | 462523 |
| Nuclear susceptibility of solid ^3He . (A17). | 462520 |
| On peculiarities of charge motion in solid helium. (A13). | 488971 |
| Thermal contact between powdered CMN and solid ^3He below 35 mK. (A17). | 475482 |
| specific heat | |
| Apparatus intended for measuring heat capacity and heat transfer down to mK range. (E12). | 473627 |
| Low temperature specific heat of ^3He - ^4He solutions. (A17). | 464728 |
| Specific heat measurements on bcc ^3He from 3 to 300 mK. (A12). | 492532 |
| [Data] | |
| spin-lattice relaxation | |
| Spin relaxation of ^3He to paramagnetic centers in surfaces at very low temperatures. (A17, A13). [Data] | 464705 |
| superfluidity | |
| The free surface of liquid helium. (A17). | 475467 |
| Phase transitions in two-dimensional superfluid ^3He . (A17). | 464732 |
| Suppression of P-wave superfluidity in long, narrow pores. (A17). | 467989 |
| surface tension | |
| The free surface of liquid helium. (A17). | 475467 |
| thermal boundary resistance | |
| Thermal contact between powdered CMN and solid ^3He below 35 mK. (A17). | 475482 |
| thermal conductivity | |
| Apparatus intended for measuring heat capacity and heat transfer down to mK range. (E12). | 473627 |
| transport theory | |
| Transport coefficients of normal liquid ^3He at very low temperatures. (A17). | 464726 |
| wave functions | |
| Asymptotic normalization of the triton D state. (A33). | 486242 |
| x-ray diffraction | |
| Structure factor of liquid ^3He - ^4He mixture. (A17). | 489710 |
| zero sound | |
| Determination of the Landau parameter F_2 sup(s) for liquid helium three from acoustical measurements. (A17). | 462500 |
| HELIUM 3 A: | |
| (A phase of superfluid helium 3.) | |
| current density | |
| Mass current in superfluid ^3He A. (A17). | 462512 |
| density | |
| Hydrodynamic experiments in superfluid ^3He . (A17). | 462525 |
| equations of motion | |
| Orbital dynamics of ^3He -A in the presence of a heat flow and a magnetic field. (A13). [Data] | 462198 |
| heat transfer | |
| Texture transformation and anisotropic heat flow in ^3He -A. (A17). | 464722 |
| [Data] | |
| hydrodynamics | |
| Interaction between hydrodynamic modes in superfluid ^3He . (A17). | 475480 |
| Low-lying ^3He -A states in a rotating cylinder. (A17). | 462527 |
| ion mobility | |
| Ion and NMR experiments in superfluid ^3He . (A17). | 462493 |
| kinetic equations | |
| Microscopic theory of orbital dynamics in superfluid ^3He -A. (A17). | 462498 |
| magnetic resonance | |
| Field-Induced I textures and magnetic resonance in superfluid ^3He -A. (A17). | 485977 |
| magnetization | |
| On anomalous magnetic relaxation in superfluid helium 3. (A17). | 464716 |
| nuclear magnetic resonance | |
| Experiments on A-phase textures using pulsed NMR. (A13). | 462167 |
| Field-induced surface texture in ^3He -A in the presence of superflow. (A17). | 478373 |
| Ion and NMR experiments in superfluid ^3He . (A17). | 462493 |
| Order-parameter collective modes in ^3He -A and their effect on nuclear magnetic resonance (NMR) and ultrasonic attenuation. (A17). | 478393 |
| Texture relaxation in ^3He -A. (A17). | 489676 |
| order parameters | |
| Hydrostatics and hydrodynamics of superfluid helium three-A in zero magnetic field. (A17). | 460153 |
| Order-parameter collective modes in ^3He -A and their effect on nuclear magnetic resonance (NMR) and ultrasonic attenuation. (A17). | 478393 |
| Spin and orbital dynamics of superfluid ^3He . (A17). | 475462 |
| Vortex lattice without singular cores in superfluid ^3He -A. (A17). | 462528 |
| oscillation modes | |
| Collective modes and transport properties of superfluid ^3He . (A17). | 464737 |
| phase transformations | |
| Critical fluctuations in liquid ^3He : stabilization of the Anderson-Morel phase. (A17). | 493040 |
| relaxation | |
| Orbital motion and spin relaxation in superfluid ^3He -A. (A17). | 462529 |
| response functions | |
| Orbital dynamics in ^3He -A near transition temperature. (A17). | 481338 |
| rotation | |
| Low-lying ^3He -A states in a rotating cylinder. (A17). | 462527 |
| solitons | |
| Solitons in superfluid ^3He -A in the vicinity of the transition into the A ₁ -phase. (A17). | 485986 |
| superfluidity | |
| Flow-induced soliton lattice in superfluid ^3He -A. (A17). | 489714 |
| General review on experimental aspects of superfluid ^3He -3. (A17). | 462516 |
| On the stability of superflow in ^3He -A. (A17). | 475501 |
| Sound propagation and kinetic coefficients in superfluid ^3He . (A17). | 475506 |
| Spin and orbital dynamics of superfluid ^3He . (A17). | 475462 |
| The two superflows in ^3He -A. (A17). | 489696 |
| texture | |
| Dynamic orbital textures in ^3He -A. (A17). | 462507 |
| Field-Induced I textures and magnetic resonance in superfluid ^3He -A. (A17). | 485977 |
| Stability of helical textures in ^3He -A in the presence of superflow. (A17). | 478384 |
| Textural defects (solitons and singularities) in superfluid ^3He . (A17). | 462518 |
| Texture relaxation in ^3He -A. (A17). | 489676 |
| Texture transformation and anisotropic heat flow in ^3He -A. (A17). | 464722 |
| [Data] | |
| thermal conductivity | |
| Kinetic properties of superfluid ^3He . (A17). | 489688 |
| thermodynamic properties | |
| Low-temperature properties of liquid ^3He . (A13, A17). [Data] | 464228 |
| viscosity | |
| Hydrodynamic experiments in superfluid ^3He . (A17). | 462525 |
| Kinetic properties of superfluid ^3He . (A17). | 489688 |
| vortex flow | |
| Hydrostatics and hydrodynamics of superfluid helium three-A in zero magnetic field. (A17). | 460153 |
| Textures in rotating superfluid ^3He -A. (A17). | 464718 |
| Vortex ring without singular cores in superfluid ^3He -A. (A17). | 464717 |
| zero sound | |
| Sound propagation and kinetic coefficients in superfluid ^3He . (A17). | 475506 |
| HELIUM 3 B: | |
| (A phase of superfluid helium 3.) | |
| density | |
| Hydrodynamic experiments in superfluid ^3He . (A17). | 462525 |
| electric fields | |
| Study of the orientational electric field effect in ^3He -B. (A17). | 478389 |
| hydrodynamics | |
| Interaction between hydrodynamic modes in superfluid ^3He . (A17). | 475480 |
| Microscopic derivation of the hydrodynamic equations for the superfluid Fermi system: application to the two-fluid hydrodynamic equations in superfluid ^3He -B. (A17). | 485987 |
| ion mobility | |
| Ion and NMR experiments in superfluid ^3He . (A17). | 462493 |
| Mobility of negative ions in superfluid ^3He -B. (A17). | 475459 |
| Mobility of negative ions in superfluid ^3He . (A17). | 462495 |
| magnetization | |
| On anomalous magnetic relaxation in superfluid helium 3. (A17). | 464716 |
| nuclear magnetic resonance | |
| Direct observation of longitudinal NMR in ^3He -B below 1 mK. (A17). | 462494 |
| Ion and NMR experiments in superfluid ^3He . (A17). | 462493 |
| Low-temperature spin relaxation in ^3He -B. (A17). | 485975 |
| order parameters | |
| Spin and orbital dynamics of superfluid ^3He . (A17). | 475462 |
| orientation | |
| Study of the orientational electric field effect in ^3He -B. (A17). | 478389 |
| phase transformations | |
| Critical fluctuations in liquid ^3He : stabilization of the Anderson-Morel phase. (A17). | 493040 |
| shear | |
| Shear viscosity of the B phase of superfluid ^3He . (A17). | 462522 |
| solitons | |
| An n-vector soliton in ^3He -B without wall-pinning potential. (A17). | 462502 |
| specific heat | |
| Comment on the specific heat of superfluid ^3He . (A17). | 478391 |
| superfluidity | |
| General review on experimental aspects of superfluid ^3He -3. (A17). | 462516 |
| Sound propagation and kinetic coefficients in superfluid ^3He . (A17). | 475506 |
| Spin and orbital dynamics of superfluid ^3He . (A17). | 475462 |
| texture | |
| Textural defects (solitons and singularities) in superfluid ^3He . (A17). | 462518 |
| thermal conductivity | |
| Kinetic properties of superfluid ^3He . (A17). | 489688 |
| thermodynamic properties | |
| Low-temperature properties of liquid ^3He . (A13, A17). [Data] | 464228 |
| transport theory | |
| Collective modes and transport properties of superfluid ^3He . (A17). | 464737 |

- viscosity**
Hydrodynamic experiments in superfluid ^3He . (A17). 462525
Kinetic properties of superfluid ^3He . (A17). 489688
Shear viscosity of the B phase of superfluid ^3He . (A17). 462522
- zero sound**
Sound propagation and kinetic coefficients in superfluid ^3He . (A17). 475506
- HELIUM 3 BEAMS:**
- l-s coupling**
The microscopic spin-orbit potential for light ions. (A33). 462603
- nucleon-nucleon potential**
The microscopic spin-orbit potential for light ions. (A33). 462603
- HELIUM 3 REACTIONS:**
Mechanism of the $^9\text{Be}(^3\text{He},\alpha)^8\text{Be}(\text{O})$ reaction and isoscalar giant resonances of ^{12}C . (A34). 472233
Resonating group treatment of the nuclear systems: n, d, ^3H , ^3He , and $\alpha + ^{16}\text{O}$. (A33; Polarization, differential cross sections, rotational bond structure). [Data] 478654
- angular correlation**
Correlation measurement of emitted two particles from $^3\text{He}(\text{t},\text{tp})\text{d,d'}$ and $^3\text{He}(\text{t},\text{tdp})$ reaction at 120 MeV. (A34). [Data] 490161
- angular distribution**
 $^9\text{Be}(^3\text{He},\text{n})^{10}\text{C}$ and $^{11}\text{B}(^3\text{He},\text{n})^{12}\text{N}$ reactions at energies below Coulomb barrier. (A34). [Data] 468535
- breakup reactions**
Projectile break-up in the continuum bump spectra of the $(^3\text{He}, \text{d})$ reaction. (A34). [Data] 490203
Proton-deuteron angular correlation in the $^{12}\text{C}(^3\text{He}, \text{pd})^{12}\text{C}$ reaction at 90 MeV. (A34). [Data] 490169
- capture**
Structure in the giant resonance region of ^{16}O observed with the reaction $^{13}\text{C}(^3\text{He},\gamma)^{16}\text{O}$. (A34). 486477
- charge-exchange reactions**
 $(^3\text{He},\text{t})$ reaction mechanism via the $^{38}\text{Ar}(^3\text{He},\text{t})^{38}\text{K}$ reaction at 40 MeV. (A34). 468448
 $^{208}\text{Pb}(^3\text{He}, \text{t})^{208}\text{Bi}$, $^{144}\text{Sm}(^3\text{He}, \text{t})^{144}\text{Eu}$. Search for collective 1^+ states. (A34). 490146
Completion of the mass-20 isospin quintet by employing a helium-jet-fed on-line mass separator. (A34). 468530
Gamow-Teller strength distribution from $^3\text{Fe}(^3\text{He}, \text{t})^{54}\text{Co}$. (A34). 490163
- Measurement of the $^4\text{Li}(^3\text{He},\text{d})^7\text{Be}$ and $^7\text{Li}(^3\text{He},\text{t})^7\text{Be}$ cross sections. (A34, A14; 2.0 to 6.0 MeV). 460354
- compound-nucleus reactions**
 β -delayed proton decay of ^{28}S . (A34). 468569
- deuteron spectra**
Experimental study of resonance line-shapes in $^{12}\text{C}(\text{tau},\text{d})$ stripping into the continuum. (A34). 475808
- differential cross sections**
On the charge asymmetry effects in the $^3\text{He}(^3\text{H}, \text{d})^3\text{He}$ reaction. (A33). [Data] 472156
- elastic scattering**
Ambiguities in the ^3He spin-orbit potential for ^{32}S . (A32). [Data] 472121
Deuteron and ^3He scattering; discussion on the uniqueness of their optical potentials. (A33, A34). 464974
Effects of coupled reaction channels on polarisation in ^3He scattering. (A32). 490020
Elastic scattering of 119 MeV ^3He particles and mass number dependence of optical potential parameter. (A34). [Data] 490181
Optical model analysis of the elastic scattering of 45 MeV ^3He particles on 1p shell nuclei. (A34). 483877
Polarization effects in elastic scattering of ^3He . (A34, A33). 465157
Relevance of the proximity potential to light-ion scattering. (A33). 493303
Study on 50 MeV ^3He ion scattering and the $(^3\text{He},\alpha)$ reaction on ^9Be , ^{12}C and ^{13}C nuclei. (A34). 493380
- inelastic scattering**
Inelastic scattering of helions from even-even stable samarium isotopes at 40.9 MeV. (A34). 483910
Prospective study of giant resonances by inelastic scattering of heavy ions and search for giant monopole resonance by inelastic scattering of ^3He . (A34). [Data] 493377
- l-s coupling**
Ambiguities in the ^3He spin-orbit potential for ^{32}S . (A32). [Data] 472121
- many-nucleon transfer reaction**
The mass of ^{65}Co . (A34). 481571
- nuclear potential**
Ambiguities in the ^3He spin-orbit potential for ^{32}S . (A32). [Data] 472121
- nuclear reaction kinetics**
Reaction mechanism for $(^3\text{He}, \text{t})$. (A34). 490162
- one-nucleon transfer reactions**
A comparative study of proton states in $^{121}_{123}_{125}_{127}_{129}_{131}\text{I}$ excited by (α,t) and $(^3\text{He},\text{d})$ reactions. (A34). 483931
Observation of $\text{T} < \text{T} >$ inner hole states in ^{207}Pb . (A34). 460328
Study of the $^{58}\text{Ni}(\text{tau},\alpha)^{57}\text{Ni}$ reaction at 25 MeV. (A34). 483873
A study of the two-particle states in ^{42}Sc from the $^{41}\text{Ca}(^3\text{He},\text{d})$ reaction. (A34). 483937
- optical models**
Optical model analysis of the elastic scattering of 45 MeV ^3He particles on 1p shell nuclei. (A34). 483877
Polarization effects in elastic scattering of ^3He . (A34, A33). 465157
- pickup reactions**
Effect of core vibration on the neutron-hole states of ^{207}Pb . (A33). 465036
Neutron pickup from ^{22}Ne . (A34). 486377
Study of the $^{58}\text{Ni}(\text{tau},\alpha)^{57}\text{Ni}$ reaction at 25 MeV. (A34). 481556
Three nucleon transfer in (α,p) and $(^3\text{He},^3\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
- plasma**
Thermonuclear reaction rates in a deuterium-tritium plasma. (A34, A14). [Data] 478701
- silicon 28 target**
 $(^3\text{He}, ^3\text{He})$ and $(^3\text{He}, \text{d})$ reactions on ^{28}Si at 90 MeV. (A34). [Data] 490202
- spin orientation**
Effects of coupled reaction channels on polarisation in ^3He scattering. (A32). 490020
- stripping**
 $(^3\text{He},\text{n})$ reaction near and above $Z = 82$. (A34). 486312
Changing deformations and the role of the Coriolis interaction in heavy transitional nuclei as revealed by single proton transfer reactions. (A34; 35.1 and 41.2 MeV, spectroscopic factors, stripping strengths, excitation energies). 468533
Decay modes of analog states studied by the $(^3\text{He},\text{dp})$ reaction. (A34). 486376
Levels in ^{73}As through the $^{72}\text{Ge}(^3\text{He},\text{d})$ reaction. (A34). 478763
Measurement of the $^6\text{Li}(^3\text{He},\text{d})^7\text{Be}$ and $^7\text{Li}(^3\text{He},\text{t})^7\text{Be}$ cross sections. (A34, A14; 2.0 to 6.0 MeV). 460354
Nuclear structure of ^{90}Tc . (A34). 490225
Quest for neutral-current-enhanced parity mixing in ^{18}F . (A34). 478745
- Small-angle cross sections for $^{50,52}\text{Cr}(^3\text{He},\text{d})^{50,52}\text{Mn}$ at 18 MeV. (A34). 468537
- Three nucleon transfer in (α,p) and $(^3\text{He},^3\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
- transfer reactions**
Spectroscopic study of the $\text{N}=27$ nuclei by means of the (tau,α) reaction. (A34). 481555
- two-nucleon transfer reactions**
The $(^3\text{He},\text{n})$ reaction on $\text{N}=82$ targets and even isotopes of neodymium. (A34). 483821
Certain aspects of the $(^3\text{He}, \text{n})$ reaction. (A34). 468476
Facility for the measurement of proton polarization in nuclear reactions. (E41). 470958
Parity of $^{19}\text{F}(5.10)$ and $^{19}\text{Ne}(5.09)$. (A34). 475806
- HELIUM 3 TARGET:**
- electromagnetic form factors**
The structure of ^3He and elastic electron scattering. (A33, A34). 468413
- electron reactions**
 $^3\text{He}(\text{e},\text{e}^{\prime})$: A proposed experiment. (A34, A33). 468531
 $^3\text{He}(\text{e},\text{e}^{\prime})$: a proposed experiment. (A33). 481500
Outlook. (A34, A33; planned and recommended experiments and calculations in the field of electron scattering by deuteron, helium 3 and triton). 468559
The structure of ^3He and elastic electron scattering. (A33, A34). 468413
Study on the quasi-elastic scattering of electrons on a ^3He nucleus. (A34). 493412
180° electron scattering from ^3He . (A34). 475820
- isobaric analogs**
Pion single charge exchange. (A34, E41; Angular distribution, cross sections, preliminary results, 200 MeV). [Data] 478717
- muon reactions**
Calculation of μ -capture and radiative μ -capture on ^3He . (A33). 490075
- neutron reactions**
Observation of doubly radiative neutron capture by ^3He . (A34). 472301
Radiative neutron capture by He^3 in the energy range 1-70 KeV. (A34). 465081
Study of a four-nucleon system in neutron reactions at low energies. (A33, A34). [Data] 468411
- photoneuclear reactions**
 π^+ photoproduction near threshold on ^3He . (A34, A12). 490119
Asymmetry of the angular distribution in the $\pi\text{sup}(0)$ meson photoproduction on light nuclei. (A33). 493209
A measurement of π^0 photoproduction on ^3He and ^4He near threshold. (A34). 481522
Neutral pion photoproduction on nuclei near threshold. (A34). [Data] 481539
Suppression of the isospin-1/2, three-body photodisintegration of ^3He . (A33). [Data] 465020
- pion minus reactions**
Large-angle charge-exchange scattering of pions by ^3He at 200, 250, 275, and 290 MeV. (A34). [Data] 465155
Pion single charge exchange. (A34, E41; Angular distribution, cross sections, preliminary results, 200 MeV). [Data] 478717
Threshold pion photoproduction and radiative pion capture on ^3He : determination of the $\pi\text{-}^3\text{He}\text{-H}$ coupling constant. (A33). 472176
- pion plus reactions**
Elastic scattering model of pions on lightest nuclei. (A33). 493165
- proton reactions**
Four-body model of the four-nucleon system. (A33). 486227
Low-energy $\text{p} + ^3\text{He}$ elastic scattering and the optical potential. (A33). 486292
Study of the giant resonances of ^4He with the $^3\text{H}(\text{pVector},\gamma)^4\text{He}$ reaction. (A34; 6.0 to 16.0 MeV, angular distributions, asymmetry, E1 and E2 amplitudes, relative phases, E1 strength). 468508
- spectral functions**
 $^3\text{He}(\text{e},\text{e}^{\prime})$: A proposed experiment. (A34, A33). 468531
- HELIUM 4:**
See also HELIUM 1; HELIUM II

| | |
|--|--------|
| atom-atom collisions | |
| Metastability exchange in a mixture of helium isotopes. (A12). | 464113 |
| atom-molecule collisions | |
| Interaction of 2^3S_1 helium atoms with hydrogen and deuterium molecules: study by optical orientation of atoms. (A12). | 467233 |
| binary mixtures | |
| Evaporation and condensation mechanism in ^3He - ^4He mixture systems. (A17). | 483604 |
| Structure factor of liquid ^3He - ^4He mixture. (A17). | 489710 |
| Thermal transport properties in a ^3He - ^4He mixture near and below the superfluid transition. (A17). | 475492 |
| binding energy | |
| Trimer binding in two dimensions. (A12). | 477716 |
| bose-einstein condensation | |
| Base condensation into a finite momentum state. (A17). | 475507 |
| Investigation of the temperature dependence of the Bose condensate density in helium 4 in relation to the superconductivity phenomenon. (A17). | 493028 |
| carrier mobility | |
| On peculiarities of charge motion in solid helium. (A13). | 488971 |
| Study on effect of plastic deformation on charge motion in solid ^4He . (A13). | 492630 |
| chemical composition | |
| Constraints on cosmology and neutrino physics from big bang nucleosynthesis. (A15). | 464694 |
| crystal-phase transformations | |
| A study of the transition hcp ^4He to fcc ^4He in the vicinity of the triple point. (A17). | 483601 |
| diffusion | |
| Range profiles of 300- and 475-eV $^4\text{He}^+$ ions and the diffusivity of ^4He in tungsten. (B22, A32). [Data] | 469327 |
| distribution functions | |
| Semiclassical statistical mechanics. (A11, A12). | 485369 |
| electromagnetic interactions | |
| Electromagnetic interactions in liquid helium. (A17). | 478380 |
| electron gas | |
| Cyclotron resonance in a two-dimensional electron gas on helium surfaces. (A17, A13). | 483603 |
| energy levels | |
| Study of the giant resonances of ^4He with the $^3\text{H}(\text{pVector}, \gamma_0)^4\text{He}$ reaction. (A34; 6.0 to 16.0 MeV, angular distributions, asymmetry, E1 and E2 amplitudes, relative phases, E1 strength). 468508 | |
| energy-level density | |
| Nuclear level density in the ^4He system. (A33). | 486200 |
| equations of state | |
| Phase diagram and concentration susceptibility of ^3He - ^4He mixtures near the tricritical point. (A17). | 485988 |
| Thermodynamics of dilute gases: application to submonolayer He films. (A11). [Data] | 485374 |
| excited states | |
| Study of the first excited state in ^4He via the $^{12}\text{C}(\alpha, \alpha')^{12}\text{C}$ reaction. (A34). | 490244 |
| e0-transitions | |
| Monopole excitations in ^4He , ^{12}C and ^{24}Mg in a collective model description. (A33). | 472187 |
| gev range 100-1000 | |
| Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] | 475665 |
| giant resonance | |
| Study of the giant resonances of ^4He with the $^3\text{H}(\text{pVector}, \gamma_0)^4\text{He}$ reaction. (A34; 6.0 to 16.0 MeV, angular distributions, asymmetry, E1 and E2 amplitudes, relative phases, E1 strength). 468508 | |
| giant resonance model | |
| Macroscopic theory for dipole states. (A33). | 472208 |
| helium dilution refrigeration | |
| The ^3He - ^4He dilution refrigerator through which ^4He is circulated and cooling by compression of the ^3He in the mixing chamber of this refrigerator. (A17). | 462515 |
| hypernuclei | |
| Further investigation of the γ -transitions in $\text{sub}(\Lambda)^4\text{H}$ and $\text{sub}(\Lambda)^4\text{He}$ hypernuclei. (A34). | 483835 |
| The $\text{sub}(\Lambda)^4\text{He}$ - $\text{sub}(\Lambda)^4\text{H}$ binding energy difference. (A34). | 490165 |
| ion emission | |
| Optional positioning of field emitters for ion injection in liquid helium. (E21, A13). | 491705 |
| ion-atom collisions | |
| Classical four-body calculations of $^3\text{He}^+ + \text{H}$ and $\text{H} + \text{H} + \text{H}$ collisions. (A12). | 488762 |
| isothermal processes | |
| Thermodynamics of dilute gases: application to submonolayer He films. (A11). [Data] | 485374 |
| lambda particles | |
| The $\text{sub}(\Lambda)^4\text{He}$ - $\text{sub}(\Lambda)^4\text{H}$ binding energy difference. (A34). | 490165 |
| lambda point | |
| The first terms of the free-energy in Feynman's model for the lambda transition. (A12). | 471338 |
| lattice vibrations | |
| The lattice dynamics of quantum crystals of f.c.c. ^4He . (A13). [Data] | 481123 |
| magnetic susceptibility | |
| Differential osmotic pressure measurements of the concentration susceptibility of liquid ^3He / ^4He mixtures near the lambda curve and tricritical point. (A17). | 481334 |
| nuclear radii | |
| Convergence studies for the one-body mass radius operator of some closed-shell nuclei. (A33). | 475744 |
| nuclear reaction yield | |
| Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] | 475665 |
| nuclear structure | |
| A simple effective interaction for nuclear matter and finite nuclei. (A33). | 468273 |
| Structure of the second 0^+ state of ^4He . (A33). | 462605 |
| osmosis | |
| Measurements of the osmotic pressure in liquid mixtures of ^3He and ^4He near the lambda line and tricritical point. (A17). [Data] | 485985 |
| particle production | |
| Back-angle production of light ions from 720-MeV α -nucleus collisions. (A34). | 475852 |
| phase transformations | |
| Phase diagram and concentration susceptibility of ^3He - ^4He mixtures near the tricritical point. (A17). | 485988 |
| proton reactions | |
| Investigation of possible formation of fast ^3H and ^4He nuclei in the quasielastic processes ($\text{p}, \text{n}^+\text{H}$), ($\text{p}, \text{n}^+\text{He}$) at high energies. (A33). | 493329 |
| quantity ratio | |
| Measurements of the osmotic pressure in liquid mixtures of ^3He and ^4He near the lambda line and tricritical point. (A17). [Data] | 485985 |
| second sound | |
| Boundary conditions for second sound in superfluid ^4He . (A17). | 478377 |
| Second sound absorption in superfluid solutions of He^3 - He^4 . (A17). | 489681 |
| solids | |
| On peculiarities of charge motion in solid helium. (A13). | 488971 |
| sound waves | |
| Measurement of the acoustic impedance of liquid ^4He by acoustic surface waves. (A17). | 489712 |
| specific heat | |
| Apparatus intended for measuring heat capacity and heat transfer down to mK range. (E12). | 473627 |
| Low temperature specific heat of He^3 - He^4 solutions. (A17). | 464728 |
| sum rules | |
| Sum rules for superfluid ^4He at finite temperatures. (A17). | 483602 |
| superfluidity | |
| The attenuation of first and second sound near the lambda-line in liquid ^4He . (A13, A17). | 492705 |
| Combined measurements on various types of stationary flow of superfluid ^4He . (A17). | 489692 |
| The free surface of liquid helium. (A17). | 475467 |
| Lifetime of electrons on the liquid surface of superfluid ^4He . (A17). | 489684 |
| Macroscopic quantum waves in non local theories. (A17). | 485997 |
| Sum rules for superfluid ^4He at finite temperatures. (A17). | 483602 |
| surface properties | |
| Lifetime of electrons on the liquid surface of superfluid ^4He . (A17). | 489684 |
| surface tension | |
| The free surface of liquid helium. (A17). | 475467 |
| surfaces | |
| Cyclotron resonance in a two-dimensional electron gas on helium surfaces. (A17, A13). | 483603 |
| Measurement of the acoustic impedance of liquid ^4He by acoustic surface waves. (A17). | 489712 |
| thermal conductivity | |
| Apparatus intended for measuring heat capacity and heat transfer down to mK range. (E12). | 473627 |
| vortices | |
| Vortex waves in superfluid ^4He . (A17). | 485970 |
| x-ray diffraction | |
| Structure factor of liquid ^3He - ^4He mixture. (A17). | 489710 |
| HELIUM 4 REACTIONS: | |
| See ALPHA REACTIONS | |
| HELIUM 4 TARGET: | |
| Elastic π^+ scattering on ^4He , ^{12}C , ^{16}O and ^{40}Ca . (A33). | 468358 |
| alpha reactions | |
| Alpha-alpha elastic scattering at intermediate energies. (A34; 650 to 850 MeV, cross sections). | 468549 |
| Natural boundary condition methods for the microscopic treatment of composite-particle scattering. (A33). | 483725 |
| Nucleus-nucleus potential. (A33; Antisymmetrization, generator-coordinate method). | 460295 |
| Production of A = 6 and 7 isotopes in the $\alpha + \alpha$ reaction. (A34, A15). | 468489 |
| deuteron reactions | |
| Measurement of vector polarization in elastic scattering of deuterons on ^4He nuclei. (A34). | 493362 |
| electron reactions | |
| Anomalous channel of the $^4\text{He}(\text{e}, \text{e}^+\text{p})$ reaction. (A34). | 493390 |
| Center-of-mass corrections of the shell model wave functions. (A33; Form factors). | 468338 |
| Recoil nucleus momentum distribution in the $^4\text{He}(\text{e}, \text{e}^+\text{p})^3\text{H}$ reaction with 1186-MeV electrons. (A34). | 465138 |
| helium 3 reactions | |
| Antisymmetrization effects on the effective internuclear potential. (A33). | 483777 |
| neutron reactions | |
| Two-roton bound state in He^2 . (A17, A13). | 493025 |
| photonic reactions | |
| $^4\text{He}(\gamma, \text{p})$ -to- (γ, n) cross-section ratio. (A34). | 486441 |
| Asymmetry of the angular distribution in the $\pi\text{sup}(0)$ meson photoproduction on light nuclei. (A33). | 493209 |

- Effect of the final state interaction in the reaction $\gamma + {}^4\text{He} \rightarrow p + p + n + n$. (A33). 468336
- Experimental check on the role of meson exchange currents in the description of photoprocesses on low-nucleon systems. (A34). 493350
- Experimental testing exchange meson currents role in the description of photoprocesses for low-nucleon systems. (A33). 464949
- A measurement of π^0 photoproduction on ${}^3\text{He}$ and ${}^4\text{He}$ near threshold. (A34). 481522
- On absorption of photons by light nuclei. (A33). 493185
- On the mechanism of the ${}^4\text{He}(\gamma, \text{pn}){}^2\text{H}$ reaction below the threshold of meson production. (A34). 493349
- P-odd effects in the $\gamma + {}^4\text{He} \rightarrow {}^4\text{He} + \pi^0$ reaction. (A33, A21). 475770
- Photodisintegration of the alpha particle. (A33). 486253
- Study of a four-nucleon system in neutron reactions at low energies. (A33, A34). [Data] 468411
- Study on the (pn) pair relative momenta. (A33). 493153
- Towards the complex momenta theory of non-diffractive processes on nuclei. (A21). 493062
- 2^+ resonance in the ${}^4\text{He}(\gamma, d){}^2\text{H}$ reaction. (A33). 493229
- pion minus reactions**
- π -Helium-4 scattering experiment at 5 GeV/c. Data processing. (A34). 483857
- Coupled channel method for the π - ${}^4\text{He}$ elastic and inelastic scattering. (A33). [Data] 468316
- Information on the nucleon-isobar content in helium from 5 GeV pion-helium interactions. (A34). 478697
- Pion-nucleus scattering with separate treatment of protons and neutrons. (A33). 478624
- pion plus reactions**
- Pion-nucleus scattering with separate treatment of protons and neutrons. (A33). 478624
- pion reactions**
- Impulse approximation to pion-helium and electron-hydrogen molecule collisions. (A33, A12; Scattering amplitudes, 85 and 206 MeV). 468369
- Isobar-hole description of pion elastic scattering and the pion-nuclear many-body problem. (A33). 483788
- proton reactions**
- The (p, π^+) reaction and the NN π vertex. (A33). 490101
- Account of the Coulomb interaction in calculation of energy dependence of the S-phase in $p\alpha$ scattering. (A33). 493292
- Cross-section and polarization measurements of p - ${}^4\text{He}$ elastic scattering at GeV energies. (A22). 468175
- Diffraction approach to the description of the ${}^4\text{He}(p, d){}^3\text{He}$ reaction. (A33). 493257
- Few-nucleon reactions at intermediate energies. (A33). 486297
- Intermediate-energy proton- ${}^4\text{He}$ elastic scattering with a microscopic optical potential. (A33). 490038
- Proton total cross sections on ${}^1\text{H}$, ${}^2\text{H}$, ${}^3\text{He}$, ${}^4\text{He}$, ${}^9\text{Be}$, C and O in the energy range 180 to 560 MeV. (A34). 468558
- Proton-nucleus elastic scattering at 1 GeV in the Glauber model. (A33). 468267
- Relativistic optical model analysis of medium energy p - ${}^4\text{He}$ elastic scattering experiments. (A33). 475703
- Transfer reactions at intermediate energies. (A34). 483933
- Validity of the closure approximation in multiple scattering theory. (A33, A21). 475773
- HELIUM 7:**
- energy levels**
- (n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
- hypernuclei**
- Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
- HELMHOLTZ FREE ENERGY:**
- See *FREE ENERGY*
- HELMINTHS:**
- See also *SCHISTOSOMA*
- HEMAGGLUTINATION:**
- See *HEMAGGLUTININS*
- HEMAGGLUTININS:**
- See also *PHYTOHEMAGGLUTININ*
- distribution**
- Tissue distribution of radioiodinated Ricinus lectins. (C21). 491035
- HEMANGIOMAS:**
- See *ANGIOMAS*
- HEMATIN:**
- See *HEME*
- HEMATITE:**
- muon probes**
- μSR in antiferromagnetic Cr_2O_3 and $\alpha\text{-Fe}_2\text{O}_3$. (A13). 474876
- HEMATOLOGY:**
- radiation injuries**
- Pathobiochemical, hematological and immunological findings in pigs with an acute radiation syndrome showing only a few clinical symptoms. 2. (C14). 482049
- radioisotope scanning**
- Hematological studies. (C62). 484726
- tracer techniques**
- Nuclear hematology. (C62). 482423
- HEMATOPOIESIS:**
- See *BLOOD FORMATION*
- HEMATOPOIETIC SYSTEM:**
- See also *BONE MARROW*
- biological radiation effects**
- Animal model of human disease. (C14). 469664
- Medulloblastoma: treatment results and effect on normal tissues. (C15). 476579
- Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). 494346
- hypophysectomy**
- Influence of hypophysectomy on cellularity of hemopoietic organs during the first seven hours after exposure. (C14). 484505
- immunosuppression**
- Radiobiological considerations in the use of total-body irradiation for bone-marrow transplantation. (C15, C63; Ablation of bone marrow stem cells prior to transplant in treatment of leukemia). 473020
- radiation protection**
- Effects of carrageenan on radiation lethality. (C14). 472970
- HEMATOPORPHYRIN (HEME):**
- See *HEME*
- HEMATOPORPHYRINS:**
- response modifying factors**
- The mechanism of photodynamic inactivation of human cells in vitro in the presence of haematoporphyrin. (C11). 490923
- HEME:**
- erythropoiesis**
- Enhancement of erythroid colony growth in culture by hemin. (C21). 463240
- HEMIC DISEASES:**
- See also *ANEMIAS; ISCHEMIA; LEUKEMIA; LEUKOPENIA; LYMPHOPENIA; MYELOID LEUKEMIA; PURPURA; THALASSEMIA*
- diagnosis**
- Detection of hemophilia A carriers by use of frozen plasma samples. (C62; Iodine isotopes). 470181
- Diffuse pulmonary uptake of indium-111 chloride in idiopathic myelofibrosis. (C62, C21). 494566
- diagnostic techniques**
- An immunoradiometric assay for procoagulant factor VIII antigen: results in haemophilia, von Willebrand's disease and fetal plasma and serum. (C62). 487722
- HEMIN:**
- See *HEME*
- HEMIPTERA:**
- See also *APHIDS*
- HEMOGLOBIN:**
- See also *METHEMOGLOBIN*
- binding energy**
- Haptoglobin radioassay based on binding to solid-phase hemoglobin. (C31; ^{125}I tracer technique). 479975
- chemical analysis**
- Amino acid substitution: its use in detection and analysis of genetic variants. (C15; Neutrons, gamma radiation). 494324
- chemical radiation effects**
- γ irradiation of aqueous solutions of human hemoglobin in atmospheres of air and argon. (C11, B14). [Data] 490925
- Ultraviolet - induced chemiluminescence of aqueous solutions of haemin, haemoglobin, cytochrome c, peptides and proteins. (C11; Review). 494273
- immune reactions**
- Immunological comparisons of mouse haemoglobins. (C45). 463328
- mice**
- Hemoglobin of mice with radiation-induced mutations at the hemoglobin loci. (C14). [Data] 487225
- protein denaturation**
- Mechanical instability of falcemic oxyhemoglobin. (C31). 476631
- radioimmunoassay**
- A double antibody radioimmunoassay for mouse hemoglobins: use of polyethylene glycol in conjunction with the second antibody. (C45). 469862
- HEMOLYSIS:**
- (The alteration, dissolution, or destruction of red blood cells in such a manner that hemoglobin is liberated into the medium in which the cells are suspended.)
- biological radiation effects**
- Participation of superoxide generating system, superoxide dismutase and vitamin E in the radiation hazards. (C11). 481977
- response modifying factors**
- Modification of radiation damage to erythrocyte membranes by combined radioprotectant and radiosensitizer treatment. (C11). 465908
- HEMOPHILUS:**
- See *HAEMOPHILUS*
- HEMOPOIESIS:**
- See *BLOOD FORMATION*
- HEMORRHAGE:**
- biological radiation effects**
- Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276
- diagnosis**
- Demonstration of bleeding site by $^{99\text{m}}\text{Tc}$ -labeled red cells. (C62, C61, C31). 487738
- Evaluation of three imaging instruments in dogs with liver hematomas: concise communication. (C62, C61, E41; $^{99\text{m}}\text{Tc}$ -sulfur colloid). 491323
- radiation effects**
- Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998
- Effects of chronic ingestion of tritiated water on prenatal brain development. (C21; Rats). 473104
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or

- radium). 487254
 Hydroxyurea or placebo combined with radiation to treat stages
 IIB and IV cervical cancer confined to the pelvis. (C15, C63,
 C64; External γ radiation and intracavitary cesium, cobalt or
 radium). 476582
 Limitations of adjunctive surgery in carcinoma of the cervix. (C15,
 C63, C64). 473022
 Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative
 effects on related symptoms and acute and delayed complications
 of radiotherapy). 487276
 Radiation therapy in lymphomatoid granulomatosis. (C15, C63). 461077
 Treatment of Stages I and II cancer of the cervix: analysis of 5
 year survival and recurrence rates. (C15, C63, C64; Effects of
 surgery an incidence of complications following radiotherapy). 473029
- HENS:**
 See CHICKENS
- HEPARIN:**
- affinity**
 Interaction of basic amino acids, polypeptides and proteins with
 heparin. (C11). 490917
- biological radiation effects**
 Changes of the antiheparin activity of the blood plasma after
 irradiation. (C14). 469632
- early radiation effects**
 Changes in blood plasma and lymph antiheparin activity in whole-
 body irradiated dogs. II. (C14). 463136
- histamine**
 The mechanism of histamine binding to heparin. (C11). [Data] 490916
- metabolism**
 Pharmacokinetics of sup(99m)Tc labelled heparin. (C31). 491082
- HEPATITIS:**
- antigens**
 Radioimmunoassay of hepatitis B e-antigen (HBeAg): identification
 of HBeAg not associated with immunoglobulins. (C45). [Data] 473174
- diagnosis**
 Simple computer quantitation of spleen-to-liver ratios in the
 diagnosis of hepatocellular disease. (C62, C21; /sup 99m/Tc-sulfur
 colloid). 473491
- radiation effects**
 Anticoagulation and high dose liver radiation. A preliminary report.
 (C15, C63). 469706
- HEPATOMAS:**
- acid phosphatase**
 Effect of ultraviolet radiation on the activity of acid phosphatase in
 lysosomes of the Zaidella ascite hepatoma cells. (C11). 484453
- aldehydes**
 Modification of the immunogenicity and antigenicity of rat
 hepatoma cells. (C11). 494270
- biological regeneration**
 Tumour regrowth after irradiation. (C14, C63). [Data] 463192
- immunity**
 Modification of the immunogenicity and antigenicity of rat
 hepatoma cells. (C11). 494260
- tumor cells**
 Modification of the immunogenicity and antigenicity of rat
 hepatoma cells. (C11). 494260
- modification of the immunogenicity and antigenicity of rat
 hepatoma cells. (C11). 494270**
- HEPTANE:**
- chemical radiation effects**
 The radiation-induced oxidation of n-heptane. (B14). [Data] 479212
- radiolysis**
 Protection of saturated hydrocarbons by aryl ketones. (B14). 479230
- HEPTENES:**
- radiolysis**
 The radiolysis of heptene-1. (B14). [Data] 472505
- HERBICIDES:**
- radioimmunoassay**
 Emergency estimations of paraquat in plasma. A comparison of the
 RIA and ion pair/colorimetric methods. (C45). 484645
- HERBS:**
- radioactivity**
 Radioactivity of some herbal medical raw materials. (C22). [Data] 484592
- HEREDITARY DISEASES:**
- diagnosis**
 Radionuclide assessment of Gaucher's disease. (C62, C31; /sup
 99m/Tc-sulfur colloid and -methylene diphosphonate). 470080
- radiosensitivity**
 The oxygen enhancement ratio for radiation lethality in ataxia
 telangiectasia cells. (C11, C63). [Data] 463055
- HERMITIAN OPERATORS:**
- heisenberg picture**
 Hermitian phase operator and Heisenberg permutible commutators.
 (A11). 492405
- HERPES ZOSTER:**
- antibodies**
 Simultaneous radioimmunoassay for specific antibodies to members
 of the human herpesvirus group. (C45). 469872
- HERTZSPRUNG-RUSSELL DIAGRAM:**
- Hertzsprung-Russell diagrams and color-luminosity diagrams for the
 stars nearer than twenty-two parsecs. (A15). 475275
- The HR diagram. (A15). 475278
- HR diagrams derived from the Michigan Spectral Catalogue. (A15). 475304
- Some uses of spectral classification in HR diagrams. (A15). 475357
- algorithms**
 Absolute magnitudes by statistical parallaxes. (A15). 475292
- binary stars**
 Fundamental parameters and the helium content of eclipsing
 spectroscopic binaries. (A15). 475312
- calibration**
 The absolute calibration of the HR diagram: fundamental effective
 temperatures and bolometric corrections. (A15). 475290
- Absolute magnitudes by statistical parallaxes. (A15). 475292
- Angular diameters of cool stars measured by the method of lunar
 occultations. (A15). 475446
- From multicolor photometric indices to the HR diagram. (A15). 475415
- The main sequence of NGC 6231 and the calibration of absolute
 magnitudes. (A15). 475268
- A more accurate HR diagram for the cooler stars. (A15). 475319
- Quantitative two-dimensional classifications of low dispersion
 objective prism spectra. (A15). 475400
- carbon stars**
 Carbon and late type M stars as population indicators. (A15). 475196
- cepheids**
 Pulsation modal behavior of classical Cepheids in the HR diagram.
 (A15). 475240
- computer codes**
 A computer method for spectral classification. (A15). 475174
- dwarf stars**
 The main sequence at G2 V. (A15). 475286
- A preliminary color-magnitude diagram for the Ursa Minor dwarf
 galaxy. (A15). 475402
- Spectroscopic observations of late-type halo M dwarfs. (A15). 475200
- Ultraviolet colors of subdwarf O stars. (A15). 475444
- galactic evolution**
 Nucleosynthesis in massive population II stars. (A15). 475246
- galaxies**
 The Hertzsprung-Russell diagram of metal-poor disk stars. (A15). 475190
- HR diagrams of galaxies: ages and stages of evolution. (A15). 475424
- A preliminary color-magnitude diagram for the Ursa Minor dwarf
 galaxy. (A15). 475402
- giant stars**
 Carbon and late type M stars as population indicators. (A15). 475196
- The clump giants: a spectroscopic survey of G and K giants in
 open clusters. (A15). 475381
- The colors of G and K giant stars. (A15). 475189
- Luminosity calibration of late-type stars by statistical parallax using
 AGK3 proper motions. (A15). 475309
- Microturbulence as a third dimension in the G-K giant region of
 the HR diagram. (A15). 475261
- Sphericity effects of extended atmospheres of late-type giants in the
 HR diagram. (A15). 475324
- interstellar magnetic fields**
 On magnetic mixing and rotation in stellar evolution. (A15). 475280
- magellanic clouds**
 The HR diagram for luminous stars in nearby galaxies. (A15). 475305
- Luminosities of LMC OB stars. (A15). 475241
- magnetic stars**
 Detection of Am and Ap stars by photometric means. (A15). 475288
- The HR diagram of abnormal A-type stars. (A15). 475349
- K-line photometry: Coma and NGC 6475. (A15). 475295
- The occurrence of peculiar stars in open clusters. (A15). 475164
- main sequence stars**
 Extensions of the Wilson-Bappu effect among very luminous stars.
 (A15). 475414
- Horizontal-branch stars in the log Tsub(eff), log g diagram. (A15). 475379
- Main sequences defined by Hyades and field stars. (A15). 475432
- Red and blue stars in the direction of the Large Magellanic Cloud.
 (A15). 475370
- A revised classification system in the red for S stars. (A15). 475167
- Some progress and problems in the upper left of the HR diagram.
 (A15). 475435
- Two-dimensional spectral classification of M stars by narrow-band
 photometry. (A15). 475449
- The use of Praesepe for the definition of the lower part of the
 zero-age main sequence. (A15). 475276
- milky way**
 The HR diagram for luminous stars in nearby galaxies. (A15). 475305
- nucleosynthesis**
 Evolution of massive stars through late evolutionary phases. (A15). 475330
- Nucleosynthesis in massive population II stars. (A15). 475246
- photometry**
 Is it possible to derive the position of a star in the HR diagram
 from multicolor photometry. (A15). 475375
- proper motion**
 On G.P. Kuiper's work on the stars of large proper motion. (A15). 475194
- Statistical HR diagrams for one hundred and fifteen thousand
 proper-motion stars. (A15). 475338
- pulsating variable stars**
 A combined photometric/spectroscopic study of RR Lyrae stars in
 the globular cluster Omega Centauri. (A15). 475215
- Physical properties of Cepheids and RR Lyrae stars. (A15). 475372
- The radii of RR Lyrae stars. (A15). 475183
- RR Lyrae variable stars and the distance scale. (A15). 475232

- red dwarf stars**
Southern high-velocity stars. (A15). 475178
- red giant stars**
Red and blue stars in the direction of the Large Magellanic Cloud. (A15). 475370
Southern high-velocity stars. (A15). 475178
- spectrophotometry**
Quantitative two-dimensional classifications of low dispersion objective prism spectra. (A15). 475400
- star clusters**
The anomalous giant branch of ω Centauri. (A15). 475254
The chemical abundances of the halo clusters of the galaxy. (A15). 475217
The clump giants: a spectroscopic survey of G and K giants in open clusters. (A15). 475381
A combined photometric/spectroscopic study of RR Lyrae stars in the globular cluster Omega Centauri. (A15). 475215
A comparison between the relative heavy metal abundance of the extreme halo field stars and giant stars of globular clusters. (A15). 475413
Evidence for non-homogeneity in the metal abundances of stars in globular clusters. (A15). 475327
Evolution of globular cluster stars with mass loss and core rotation. (A15). 475267
Four-color and H β diagrams for open clusters - a survey. (A15). 475242
Horizontal-branch stars in the log Tsub(ef), log g diagram. (A15). 475379
The Hyades cluster - too distant. (A15). 475260
K-line photometry: Coma and NGC 6475. (A15). 475295
The main sequence of NGC 6231 and the calibration of absolute magnitudes. (A15). 475268
Main sequences defined by Hyades and field stars. (A15). 475432
Measurements of abundances and ages of old disk clusters. (A15). 475300
Observations of CO and OI in stars in globular clusters. (A15). 475437
Optical and infrared properties of the newly formed stars in CMa R1. (A15). 475297
Peculiarities in some cluster color-magnitude diagrams. (A15). 475348
A photometric study of Ara OB1. (A15). 475296
The role of mixing and primordial abundance variations in 47 Tucanae and ω Centauri. (A15). 475365
Spectrophotometry in stellar associations. (A15). 475283
- star evolution**
Comparison between observational and theoretical (log Tsub(ef), Msub(bol)) diagrams. (A15). 475223
Evolution of globular cluster stars with mass loss and core rotation. (A15). 475267
Evolution of massive stars: when does an Of star become a WR star. (A15). 475238
Evolution of massive stars through late evolutionary phases. (A15). 475330
The evolution of the integrated colors of globular clusters and elliptical galaxies. (A15). 475230
The expected morphology of zero age horizontal branches. (A15). 475221
On magnetic mixing and rotation in stellar evolution. (A15). 475280
The structure and evolution of massive stars. (A15). 475228
Subluminous stars in the HR diagram. (A15). 475244
Survey of some recent stellar-evolution calculations. (A15). 475420
- star models**
Comparison between observational and theoretical (log Tsub(ef), Msub(bol)) diagrams. (A15). 475223
The Vogt-Russell theorem, and new results on an old problem. (A15). 475314
- stellar atmospheres**
Sphericity effects of extended atmospheres of late-type giants in the HR diagram. (A15). 475324
- sun**
The position of the Sun in the HR diagram. (A15). 475186
- supergiant stars**
A B-star high luminosity indicator. (A15). 475266
Extensions of the Wilson-Bappu effect among very luminous stars. (A15). 475414
- variable stars**
The role of mixing and primordial abundance variations in 47 Tucanae and ω Centauri. (A15). 475365
- white dwarf stars**
The distribution of masses and radii of white-dwarf stars. (A15). 475409
Empirical evidence for crystallization sequences of DA type white dwarfs. (A15). 475422
Extending the white dwarf sequence: plans and prospects. (A15). 475334
The HR diagram of white dwarfs. (A15). 475442
- HETEROCHROMOSOMES:**
non-disjunction
Induced nondisjunction in Drosophila oocytes. (C14). 484520
The induction of sex-chromosomal nondisjunction and diploid spermatids following X-irradiation of pre-spermatid stages in the northern vole *Microtus oeconomus*. (C14). 484538
- HETEROCYCLIC ACIDS:**
See also CHLOROPHYLL; HEMATOPORPHYRINS; HEME; HEMOGLOBIN; HISTIDINE; HYDROXYPROLINE; METHEMOGLOBIN; MYOGLOBIN; OROTIC ACID; PEROXIDASES; PORPHYRINS; PROLINE; RHODAMINES; TRYPTOPHAN
- HETEROCYCLIC COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- chemical radiation effects**
 γ -ray polymerization of 4-methylpseudooxazolone. (B14). 468932
Radiation curable hydanotin diacrylate compounds. (B14; Patent). 479276
- chemical reaction yield**
Intramolecular photochemical cycloaddition of a vinylogous imide. Crystal and molecular structure of a tetracyclic $C_{17}H_{23}O_2N$ product. (B12). [Data] 486659
- chemiluminescence**
The chemiluminescence of flavin analogues. (A12). 485492
Efficient chemiluminescence from 1, 2-dioxetanes. An investigation of substituent and solvent effects. (A12). 485518
- excited states**
A consideration of mechanism and excited state products from dioxetane thermolyses. (A12). 485510
- luminescence**
Studies on aminodioxetanes as a model of bioluminescence intermediates. (A12). 485451
- meetings**
Second symposium on macrocyclic compounds. (B12). 472434
- physical radiation effects**
Defect dependence of the dielectric permeability of Qn(TCNQ) $_2$. (B25). 481889
- radiolysis**
One-electron reduction of aromatic nitrogen heterocycles in aqueous solution. 2,2'-bipyridine and 1,10-phenanthroline. (B14). 493817
Stereochemistry of decomposition of intermediate products of 1,3-dioxolane radiolysis. (B14). 479278
- reflection**
Infrared reflectance of irradiated TTF-TCNQ: a comparison of the optical and low frequency transport. (B25). [Data] 462944
- structural chemical analysis**
Intramolecular photochemical cycloaddition of a vinylogous imide. Crystal and molecular structure of a tetracyclic $C_{17}H_{23}O_2N$ product. (B12). [Data] 486659
- thermal degradation**
The thermal decomposition of 3, 3'- (0, 0'-Biphenylene)-4-methoxy-1, 2-Dioxetane and 3, 3'- Diphenyl-4-methoxy-1, 2-Dioxetane. A concerted VS a diradical pathway. (A12). 485400
- vibrational states**
Phase-dependent conformation and vibrational spectra of 1,3-disilacyclobutane. (B12, B11). 465326
- HETEROGENEOUS EFFECTS:**
(Effects of dissimilar constituents on neutron diffusion in shielding or reactor cores.)
- fca reactor**
Experiment on heterogeneity effect in FCA assembly V-1. (E21). 482666
- HETEROPOLYANIONS:**
chemical preparation
Preparation and characterization of 12-heteropoly tantalatomoxybdate(VI). (B12). 460522
Study of chromium-containing polytungstates. (B12). 493716
- electron spin resonance**
EPR spectra of molybdenum(5) in PMosub(x)Wsub(12-x)Os(40)sup(n-) heteropolyanions. (B12). 493681
- HETEROZYGOSES:**
See HYBRIDIZATION
- HEUSLER ALLOYS:**
crystal growth
Growth of large single crystals of Heusler alloys, Ni_2MnSn and $Ni_2Mnsb(1-x)Vsub(x)Sn$ for neutron inelastic scattering experiments. (B22). 476266
- electric conductivity**
Electrical resistivity at high temperatures of Heusler alloys of the Cu_2MnAl sub(1-x) Sn sub (x). (B22). 486884
- magnetic susceptibility**
Magnetic measurements on Heusler alloys (Co, Mn) $_2XY$ ($X=Ti, Zr, Hf$ and Mn ; $Y=Ge$ and Sn). (B22). 479454
- HEXANE:**
chemical radiation effects
Reactivity/rate constant ratio for scavengers of charged particles in nonpolar liquids. (B14). [Data] 486741
- chemical reactions**
Radiotracer experiments on carbon formation in zeolites. II. (B12). [Data] 465427
- electron-molecule collisions**
High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
- trapped electrons**
On electron trapping in crystalline hydrocarbons. (B14). [Data] 479164
- HEXANOLS:**
radiolysis
Study on the long life radicals of hexanediol diacrylate in irradiated urea canal complexes in relation to post-polymerization by irradiation. (B14). 481742
- HEXOSAMINES:**
skeletal diseases
Glycosaminoglycan metabolism of the medial meniscus, the medial collateral ligament and the hip joint capsule in experimental osteoarthritis caused by immobilization of the rabbit knee. (C31). 494364
- HEXOSES:**
See also GLUCOSE; HEXOSAMINES; MANNOSE
- HEXYL ALCOHOLS:**
See HEXANOLS
- HFBFR REACTOR:**
radioactive effluents
HFBFR computer controlled stack monitoring facility. (C52). 487463

- reactor experimental facilities**
 TRISTAN-II at Brookhaven. (E36). 488180
- seismic effects**
 Determination of floor response spectra for the Brookhaven HFBR reactor building structure. (C52, E36). 491201
- HFR REACTOR:**
- neutron flux**
 Users Report of HIP-TEDDI. A two dimensional, four group code for the calculation of the neutron fluence in experiment positions and operating data of the materials testing reactor HFR at Petten. (E21). 473771
- neutron sources**
 Linac booster program in Japan. (E37). 485010
- reactor maintenance**
 Summary of upgrading and renewal programmes. (E36). 484989
- reactor operation**
 Summary of upgrading and renewal programmes. (E36). 484989
- HFS:**
 See HYPERFINE STRUCTURE
- HG12 SEMICONDUCTOR DETECTORS:**
 (Mercury iodide semiconductor detectors)
 CdTe and HgI₂ crystals and detectors: present state and future. (E41). 470906
- energy resolution**
 Toward the energy resolution limit of mercuric iodide in room temperature low energy x-ray spectrometry. (E41). 466771
- fabrication**
 Recent improvements in HgI₂ detectors. (E41). 466834
- gamma detection**
 Cadmium telluride and mercuric iodide gamma radiation detectors. (E41). 485135
- nuclear medicine**
 A mercuric iodide medical probe. (E41). 485078
- performance**
 Bulk performance of improved mercuric iodide nuclear detectors. (E41). 466823
- Semiconductor detectors, recent progress. (E41). 474123**
- probes**
 Fabrication and evaluation of HgI₂ miniature probes for in-vivo medical applications. (C62, E41, D15). 466402
- radionuclide kinetics**
 A mercuric iodide medical probe. (E41). 485078
- HHIRF ACCELERATOR:**
- accelerator facilities**
 Holifield Heavy Ion Research Facility. Phase II. (E16). 480428
- construction**
 Progress on the Oak Ridge tandem. (E16). 476961
- Status of the Holifield Heavy Ion Research Facility. (E16). 491635**
- data acquisition systems**
 Data acquisition and analysis system for the Holifield Heavy Ion Research Facility. (E16). 491643
- HIBERNATION:**
- radiosensitivity**
 Implication of some endogenous biologically active substances in mechanisms of high radioresistance in hibernating ground squirrels. (C14). 466088
- HIFAR REACTOR:**
- reactor maintenance**
 Australian research reactor studies. (E36, E37). 485002
- specifications**
 Australian research reactor studies. (E36, E37). 485002
- HIGGS BOSONS:**
- coupling**
 Constraints on Higgs couplings from axionics. (A21). 475624
- Test of Higgs boson nature in $e^+e^- \rightarrow \text{HHZ}$. (A21). 483644**
- cp invariance**
 Higgs-boson mass and the strength of CP violation. (A21). 486072
- electron-positron interactions**
 Possible signature of charged Higgs particles in high energy e^+e^- annihilation. (A21). 468032
- Search for new particles. (A21). 468021**
- hadron-hadron interactions**
 Remarks on Higgs-boson interactions with nucleons. (A21). 486098
- mass**
 Comment on radiative corrections in the large-Higgs-mass limit. (A21, A11). 489801
- Is the mass of the Higgs boson about 10 GeV. (A21). 489776**
- particle decay**
 Decays of Higgs scalars into vector mesons and photons. (A21). 478402
- particle production**
 Higgs boson production by very high energy neutrinos. (A21; 1 to 1000 TeV, cross sections). 475611
- Higgs particle production by $Z \rightarrow \text{H}\gamma$. (A21). 471982**
- Higgs-boson production at large transverse momentum in quantum chromodynamics. (A21, A11). [Data] 464847**
- Hunting the weak bosons. (A21). 478400**
- reviews**
 The production and detection of Higgs particles at LEP. (A21). 483619
- weinberg lepton model**
 Higgs particles in an extended Weinberg-Salam model of weak and electromagnetic interactions. (A21). 464864
- Properties of charged Higgs bosons. (A21, A11). 464778**
- HIGGS MODEL:**
 (A gauge invariant model describing massive vector bosons, in which the scalar fields form an octet under su(3).)
- duality**
 Dual transformation in Abelian gauge theories. (A11). 477681
- gauge invariance**
 The Higgs-Kibble model on the basis of a canonical Yang-Mills field theory with gauge covariance. 1. (A21). 489788
- ginzburg-landau theory**
 Multi-vortex solutions of the Ginzburg-Landau equations. (A17, A22). 493027
- lagrangian function**
 A hidden Higgs Lagrangian in QCD. (A21). 478398
- lattice field theory**
 Diamagnetic and critical properties of Higgs lattice gauge theories. (A11, A21). 483006
- neutral currents**
 Symmetries leading to flavor conservation in Higgs-induced neutral currents and implications on the Cabibbo angle. (A21). 489792
- phase transformations**
 Phase transitions in the Abelian Higgs model. (A21, A11). 475557
- quantum chromodynamics**
 Spin-dependent forces in a semiclassical model of confinement. (A21). 483617
- quantum field theory**
 Local field theories for vortex solitons. (A21). 478440
- radiative corrections**
 Comment on radiative corrections in the large-Higgs-mass limit. (A21, A11). 489801
- scalar fields**
 Vacuum expectation values of Higgs scalars in a SU(2)/sub L/ x SU(2)/sub R/ x U(1) gauge model. (A21, A11). 475598
- supergravity**
 Topics in supergravity and supersymmetry. (A11, A21). 474545
- vortices**
 Multivortex solutions of the Ginzburg-Landau equations. (A11). 488739
- Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285**
- weak interactions**
 Weak interactions and Higgs mechanisms. (A21). 460215
- yang-mills theory**
 The Higgs-Kibble model on the basis of a canonical Yang-Mills field theory with gauge covariance. 1. (A21). 489788
- HIGH ALTITUDE (STRATOSPHERE):**
 See STRATOSPHERE
- HIGH ENERGY PHYSICS:**
 (Use only for articles of a very broad nature such as an annual research program, etc.)
- From hidden charm to explicit charm. A review of the last progress in high energy physics. (A21). 460185**
- Impact of elementary particle physics on storage rings. (E16). 480431**
- accelerator facilities**
 Next generation of accelerators. (E16). 487928
- cern**
 Hunting particles. (A20). 462531
- data processing**
 Specialized, multi-user computer facility for the high-speed, interactive processing of experimental data. (F50, A22, A30). 488507
- fermilab accelerator**
 High-energy physics at Fermilab. (A21, A22; Fermilab: Fermi National Accelerator Laboratory). 462577
- india**
 Fundamental research in India in the area of physical sciences. (F62). 482979
- lep storage rings**
 Scenarios for physics at LEP. (E16, A20). 470384
- planning**
 What do physicists expect from higher energies. (A21, E16). 489901
- quark model**
 Elementary particle physics. (A21). 478433
- radiation detectors**
 Detectors; relation of detectors to proton-anti proton machines. (E16). 480453
- research programs**
 Annual report. (A21; Summaries of research activities at Univ. Oregon). 475619
- DPHPE activities during 1977. (F62). 471194**
- Elementary particles and high energy phenomena. Progress report, January 1978 - December 1978. (A20; Summaries of research activities at Univ. of Colorado). 471966**
- Experimental physics. Annual report, July 1, 1978 - March 1, 1979. (A22; Summaries of research activities at Rockefeller Univ.). 478540**
- Fundamental research in India in the area of physical sciences. (F62). 482979**
- High energy accelerator and colliding beam user group. Progress report 1978/1979. (A22; Dept. of Physics and Astronomy, Univ. of Maryland, College Park). 478568**
- High energy accelerator and colliding beam user group. (A22; Summaries of research activities at the Univ. Maryland). 464908**
- High energy physics studies of particle interactions and the search for new particles. Annual progress report, May 15, 1978 - May 14, 1979. (A22; Summaries of research activities at Washington University). 475679**
- High energy physics progress report, April 1, 1978 - March 31, 1979. (A22; Summaries of research activities at Rice University). 464910**
- New projects in particle physics. (A22, E16). 483689**
- Progress report 1977-1978. (A21, A22). 481362**
- Research program in elementary particle theory. Progress report, 1978 - 1979. (A21; Summaries of research activities at Texas University, Austin). 486103**
- Research program in elementary particle theory. Progress report**

- ending June 30, 1980. (A21; Summaries of research activities at Syracuse Univ.) 486105
- reviews
- High energy physics. Ultimate structure of matter and energy. (A20; Historical review.) 486002
- united kingdom organizations
- Daresbury 1978. (E16.) 473661
- HIGH ENERGY RADIOTHERAPY:**
- See *RADIO THERAPY*
- HIGH EXPLOSIVES:**
- See *CHEMICAL EXPLOSIVES*
- HIGH FLUX AUSTRALIAN REACTOR:**
- See *HIFAR REACTOR*
- HIGH FLUX REACTOR PETTEN:**
- See *HFR REACTOR*
- HIGH PRESSURE COOLANT INJECTION:**
- fault tree analysis
- PL-MOD: a computer code for modular fault tree analysis and evaluation. (C52). 487544
- operation
- Rapid starting-up device of high pressure core injection system. (E24). 470578
- HIGH SPIN STATES:**
- High spin states in nuclei. (A33). 483804
- coupling constants
- High spin negative parity states in the A=100 region. (A33). 486198
- neon 20
- Spectroscopy of high spin states in ^{16}O and $^{20}\text{Ne}^*$. (A34). 465213
- oxygen 16
- Spectroscopy of high spin states in ^{16}O and $^{20}\text{Ne}^*$. (A34). 465213
- pion minus reactions
- Excitation of high-spin states on absorption of negative pions by atomic nuclei. (A33). 475769
- On the robability of excitation of high-spin states on negative pion capture by nuclei. (A33). 475730
- radon 212
- Core-excited high spin isomers in ^{212}Rn . (A34). 465150
- reviews
- Phenomena in fast rotating heavy nuclei. (A33, A34). [Data] 465022
- Physics of rapidly rotating nuclei. (A33). 490047
- shell models
- Shell-model study of the N = 28 nuclei with emphasis on high-spin states. (A33; ^{30}Ti , ^{51}V , ^{47}Ca , ^{97}Ti , ^{51}Cr). [Data] 475784
- HIGH TEMPER. GAS COOL./GRAP. M:**
- See *HIGR TYPE REACTORS*
- HIGH TEMPERATURE:**
- fluctuations
- Study of the state of the coolant in the function of the local temperature fluctuation. (E22). 473782
- loss of coolant
- RELAP4 - analysis of data from loca experiments in the fix loop. Case D6-259, a bottom break experiment without dryout. (C52, E31). [Data] 480081
- RELAP4 analysis of data from loca experiments in the fix loop. Case C12-245, a top break experiment without dryout. (C52, E31). [Data] 480103
- RELAP4 analysis of data from loca experiments in the fix loop. Case C13-263, a top break experiment with dryout. (C52, E31). [Data] 480104
- RELAP4 analysis of data from loca experiments in the fix loop. Case F6-267, a pump trip experiment with dryout. (E52, E31). [Data] 480884
- spatial distribution
- Study of the state of the coolant in the function of the local temperature fluctuation. (E22). 473782
- HIGH-BETA PLASMA:**
- (Plasma with Beta ratio of from 0.1 to 1.0.)
- adiabatic compression heating
- High-beta tokamaks by pinch techniques. (A14). 485678
- analytical solution
- Theoretical analysis on formation of high-beta plasma sheath. (A14). 464521
- anisotropy
- Cherenkov resonance as a FLR effect on anisotropy-driven modes in high-beta plasmas. (A14). 471644
- ballooning instability
- PEST code and high- β plasmas. (A14). 489129
- cherenkov radiation
- Cherenkov resonance as a FLR effect on anisotropy-driven modes in high-beta plasmas. (A14). 471644
- closed configurations
- Stability of high-pressure plasma in a system with a spatial magnetic axis. (A14). 489169
- collisional plasma
- Experiments on magnetic-field-line reconnection. (A14). 485816
- confinement
- Stability of field-reversed, force-free, plasma equilibria with mass flow. (A14). 485818
- equilibrium
- Analytical investigations of equilibrium and stability in three-dimensional MHD configurations. (A14). 464402
- helical configuration
- High- β stellarator equilibria with three helical fields. A numerical experiment. (A14). [Data] 492732
- helical instability
- Toroidal pinch experiments with a perforated shell-type coil. (A14). 467576
- hydromagnetic waves
- Hydromagnetic waves in high β plasmas. (A14). 459895
- magnetohydrodynamics
- New results in high-beta MHD theory. (A14). 464258
- mathematical models
- Realistic Vlasov slab equilibria with magnetic shear. (A14). 489275
- Simple binary collision theory of high beta mirror reactors. (A14). 459897
- plasma drift
- On transport and plasma flow in axisymmetric high-beta configurations. (A14). 464261
- plasma heating
- Alfven wave heating of a high-beta plasma. (A14). 462347
- plasma macroinstabilities
- Stable High- β equilibria for cylindrical symmetry. (A14). 485704
- plasma pressure
- Dynamics of high- β tokamaks with anisotropic pressure. (A14). 467544
- plasma simulation
- High-beta tokamaks. (A14). 459887
- reverse-field pinch
- Studies on plasma formation, relaxation and heating in a reversed-field pinch. (A14). [Data] 464251
- stability
- Stabilization of high-beta toroidal plasmas by force-free currents. (A14). 485685
- stellarators
- Stabilizing effects of 1=2,3 helical fields on high-beta stellarator configurations. (A14). 464347
- tokamak devices
- The accessibility of high-beta tokamak states. (A14). [Data] 462333
- Dynamics of high- β tokamaks with anisotropic pressure. (A14). 467544
- Experimental and theoretical studies of high-beta tokamaks. (A14). [Data] 464249
- High-beta tokamaks. (A14). 459887
- Tokamak-like equilibria at beta close to unity. (A14). [Data] 481207
- topological mapping
- The topology of tokamak orbits. (A14). 464454
- toroidal screw pinch devices
- Experiments in the FOM-Instituut voor Plasmafysica at Jutphaas, the Netherlands. (A14). 489227
- transport theory
- Fundamental timescales for flux conserving tokamak heating and certain global FCT-equilibrium properties. (A14; With neutral beam heated tokamaks, high beta equilibria can be achieved when the flux is frozen into the plasma). 489337
- HIGH-FREQUENCY DISCHARGES:**
- beam production
- Microwave discharge source for the production of supersonic atom and free radical beams. (A12). 488815
- fluid flow
- High voltage techniques for MHD - Part I: Electric sparks. (A16). 493017
- HIGH-FREQUENCY HEATING:**
- See also *ACOUSTIC HEATING; ECR HEATING; ICR HEATING; MAGNETIC-PUMPING HEATING; TRANSIT-TIME MAGNETIC PUMPING*
- Conclusions on rf heating contributions presented at the Varenna International School of Plasma Physics 1977. (A14). 489372
- Impurity radiation during RF heating in ATC. (A14). 464484
- Irreversible ponderomotive effects in a plasma. (A14). 485801
- Oak Ridge TNS Program: reference design and program plan for a TNS ECH startup system. (A14). 471714
- Process and system for plasma heating. (A14). 483319
- Pulsed high current heating of a microwave plasma at atmospheric pressure. (A14). 464245
- Ray trajectory and ion absorption of LH waves in a Tokamak. (A14). 464458
- RF-heating of toroidal plasmas. (A14). 467517
- Wave propagation and absorption near the electron-cyclotron layer in the 'THOR' device. (A14). 489253
- alfven waves
- Effect of the coupling of modes on the accessibility of "low hybrid" waves in a plasma. (A14). 492751
- Nonlinear processes of the Alfven wave heating. (A14). 464338
- On the limitation of RF fields by Alfven's critical ionization velocity phenomenon. (A14). 464496
- Shear Alfven wave heating experiments in Heliotron D. (A14). 464433
- atc devices
- Lower hybrid resonance heating. (A14). 489270
- Stochastic heating of an ion beam by lower hybrid waves. (A14). 489242
- collective model
- Collective effects associated with lower hybrid heating of plasma. (A14). 462373
- collisionless plasma
- Plasma heating in collisionless plasma at low plasma density. (A14). 475158
- comparative evaluations
- Radiofrequency heating design study for TNS. (A14). 467669
- cyclotron harmonics
- Experiments on turbulent RF-heating with frequencies near the Opm cyclotron harmonics. (A14). 459931
- electric fields
- Electric field distribution associated with lower hybrid heating of a Tokamak plasma. (A14). 462283
- electron plasma waves
- Basic experiment at LHR frequency range in octopole Tokamak. (A14). 464489

- Effect of the slow-fast mode conversion on the lower hybrid slow mode excitation. (A14). 464308
- Filamentation and spatial attenuation of the lower-hybrid waves in Tokamaks. (A14). 464468
- Lower hybrid wave propagation and parametric decay in the WEGA Tokamak. (A14). 464354
- Lower hybrid wave heating in Doublet IIA. (A14). 464418
- Tearing mode instabilities and their suppression by lower hybrid fields. (A14). 464488
- hybrid resonance**
- Collective effects associated with lower hybrid heating of plasma. (A14). 462373
- Propagation and plasma heating of the lower hybrid wave in the nonuniform density plasma. (A14). 489086
- Stochastic ion heating by a lower hybrid wave. II. (A14). 475062
- landau damping**
- Electron Landau Damping of lower hybrid waves. (A14). 459864
- microwave radiation**
- Parametric absorption of HF radiation by a magnetoactive plasma. (A14). 464449
- microwave tubes**
- Considerations in the design of a 50 GHz Gyrotron. (A14). 464472
- parametric instabilities**
- Effect of the ion-acoustic plasma turbulence on the development of the parametric instability nearby the low hybrid resonance. (A14). 483300
- Low frequency parametric processes in magnetically confined plasmas. (A14). 464419
- RF-heating in stationary systems. (A14). 489305
- plasma simulation**
- Propagation and plasma heating of the lower hybrid wave in the nonuniform density plasma. (A14). 489086
- skin effect**
- On the mechanism of Fermi acceleration and high-frequency heating of particles. (A14). 492722
- stochastic processes**
- Stochasticity and superadiabaticity in radiofrequency plasma heating. (A14). 478178
- temperature control**
- Temperature control system for plasma. (A14). 489203
- tokamak devices**
- Experimental results on the ERASMUS Tokamak. (A14). 489263
- Steady-state tokamak reactors with RF-driven currents. (A14). 464310
- turbulent heating**
- Experiments on turbulent RF-heating with frequencies near the Opm cyclotron harmonics. (A14). 459931
- wave propagation**
- Nonlinear propagation of spatially confined lower hybrid waves. (A14). 459860
- On the self-action of low-hybrid waves in a plasma. (A14). 467607
- HIGH-LEVEL RADIOACTIVE WASTES:**
(Wastes containing more than 100 microcuries/milliliter of radioactivity.)
- calcination**
- Method for calcining radioactive wastes. (E51). 480831
- chemical composition**
- Characteristics of solidified high-level waste products. (E52, E51). [Data] 482918
- chemical properties**
- Characteristics of stored high-level ICPP waste calcine. (E52). 474282
- chemical reactions**
- Reaction of water with a simulated high-level nuclear waste glass at 300°C, 300 bars. (E52, C54). 466897
- Simulated high-level waste-basalt interaction experiments. Annual progress report, October 1, 1977 - September 30, 1978. (E52). [Data] 466900
- compression strength**
- Processes for immobilization of high-level solid wastes by glass and ceramic matrices. (E51). [Data] 480844
- denitration**
- Effect of platinum group elements on denitration of high-level liquid waste with formic acid. (B12, E51). [Data] 476038
- environmental impacts**
- Environmental impact of increased nuclear energy production. (E50, C52). 471027
- glass**
- Annual Report 1976. (E50). 466867
- Glass as a material for the final disposal of fission products. (E52, B23, B13). 488367
- High level nuclear waste isolation: borosilicate glass versus crystals. (E52, E51). 463779
- land transport**
- Conceptual design of a shipping container for transporting high-level waste by railroad. (E15). 461538
- leaching**
- Ceramic forms for nuclear waste. (E50; Titanate ion exchanger). [Data] 480821
- Contribution to the study of diffusion as related to the leaching of glasses: application to the potential risk of long-term storage. (E52). 471079
- Method for determining leach rates of simulated radioactive waste forms. (E52). 480875
- Pelleted waste form for high-level ICPP wastes. (E51). [Data] 474205
- mechanical properties**
- Characteristics of solidified high-level waste products. (E52, E51). [Data] 482918
- mineralization**
- High level nuclear waste isolation: borosilicate glass versus crystals. (E52, E51). 463779
- Immobilisation of high level nuclear reactor wastes in SYNROC. (E52, E51). [Data] 463783
- origin**
- Description of solid waste expected from a large commercial reprocessing plant. (E50, B16). 474173
- packaging**
- Method to produce bodies containing high-activity waste. (E51). 461917
- physical properties**
- Characteristics of stored high-level ICPP waste calcine. (E52). 474282
- Characteristics of solidified high-level waste products. (E52, E51). [Data] 482918
- porosity**
- Processes for immobilization of high-level solid wastes by glass and ceramic matrices. (E51). [Data] 480844
- radioactive waste disposal**
- High-level waste management research. (E52). 463778
- Radioactive waste - policy and perspectives. (E50). 488321
- See-through solution to nuclear waste. (E52; The vitrification process). 488380
- radioactive waste processing**
- Applied laboratory research of high-level waste denitration and calcination technologies. (E51). 463773
- Process for an ultimate storage-mature, environmentally harmless solidification of highly and medium radioactive and/or actinides-containing aqueous waste concentrates or of fine-grained solid wastes in water slurries. (E51). 485165
- Testing and evaluation of the properties of various potential materials for immobilizing high activity waste. First annual report (1977). (E51). 492236
- reprocessing**
- Near-term prospects in nuclear regulation. (E50, F40). 461904
- solidification**
- High-level waste solidification - why we chose glass. (E51). 495192
- Immobilisation of high level nuclear reactor wastes in SYNROC. (E52, E51). [Data] 463783
- The solidification of high-level radioactive wastes. (E51). 482897
- The structures and stability of media intended for the immobilization of high level radioactive waste. (E52). 492271
- solvent extraction**
- Distribution ratios and empirical equations for the extraction of elements in purex high level waste solution. (B12, B13). [Data] 460532
- underground storage**
- Investigations of temperature development in the ultimate storage of radioactive waste. Pt. 1. (E52). 471089
- Measuring the permeability of Eleana argillite from area 17, Nevada Test Site, using the transient method. (B31, E52; This is part of the overall site studies for location of an underground storage facility for high-level radioactive wastes.). 460857
- uses**
- Recycle nuclear waste: why not. (E51). 471041
- vitrification**
- The vitrification of nuclear waste. (E51). 466871
- volume**
- Description of solid waste expected from a large commercial reprocessing plant. (E50, B16). 474173
- waste management**
- Environmental impact of increased nuclear energy production. (E50, C52). 471027
- HIGH-PURITY GE DETECTORS:**
- efficiency**
- Theoretical efficiencies and spectral calculations for the picture-detector element in a germanium γ -ray camera. (E41, B22). 461859
- fabrication**
- High purity germanium radiation detector. (E41). 470960
- Recent advances in common semiconductor materials. (E41; DOE). 470884
- gamma cameras**
- Gamma camera system. (E41, C61). 470921
- performance**
- High purity germanium radiation detector. (E41). 470960
- physical radiation effects**
- Radiation damage resistance of reverse electrode ge coaxial detectors. (E43). 488310
- radiation effects**
- High-energy proton radiation damage of high-purity germanium detectors. (E43, E41; 6 GeV/c). 466861
- specifications**
- Theoretical efficiencies and spectral calculations for the picture-detector element in a germanium γ -ray camera. (E41, B22). 461859
- testing**
- Development of an on-line hyperpure germanium process radiation monitoring system. (E24, E41). 466636
- HIGH-VOLTAGE PULSE GENERATORS:**
- High-voltage pulse modulator for a high-current electron accelerator. (E16). 494785
- klystrons**
- Plate modulation of klystron amplifying tube for low hybrid wave resonance heating. (A14). 467652
- power transmission lines**
- Development of transmission line storage pulse power systems. (E13, A14). 494705

- streamer spark chambers**
High-voltage pulse generator with a shielding solenoid. (E41). 495143
- switches**
Low prepulse, high power density water dielectric switching. (E16, E13). 494794
- thyatrons**
System for triggering power hydrogen thyatrons. (E16). 487883
- transformers**
Design of pulse transformers for PFL charging. (E16, E13). 494843
A high voltage Tesla transformer. (E13). 494703
- HIGHLY ENRICHED URANIUM:**
(80 - 100 per cent.)
- extraction chromatography**
Recovery of highly enriched uranium from dissolved Al fuel elements by 1-1 extraction and extraction chromatography. (B16). 486799
- solvent extraction**
Recovery of highly enriched uranium from dissolved Al fuel elements by 1-1 extraction and extraction chromatography. (B16). 486799
- HILACS:**
See also SUPERHILAC
- specifications**
Phase-space constraints on some heavy-ion inertial-fusion igniters and example designs of 1 MJ rf linac systems. (E16, A14). 461551
- HILBERT SPACE:**
Unstable quantum states and rigged Hilbert spaces. (A21, A11). 478447
- HILL-WHEELER THEORY:**
generator-coordinate method
Properties of Griffin-Hill-Wheeler spaces - 2. one-parameters and two-conjugate parameter families of generator states. (A33). 486274
- HINKLEY POINT-A REACTOR:**
steam turbines
UK experience of stress corrosion cracking in steam turbine discs. (E22, E33). 477117
- stress corrosion**
UK experience of stress corrosion cracking in steam turbine discs. (E22, E33). 477117
- HINKLEY POINT-B REACTOR:**
performance
Review of the commissioning and operational experience of the Hinkley Point B AGR after three years' power operation. (E33). 494966
- reactor commissioning**
Review of the commissioning and operational experience of the Hinkley Point B AGR after three years' power operation. (E33). 494966
- reactor kinetics**
Fuel temperature coefficient of reactivity measurements at Hinkley Point 'B'. (E33). 463652
- reactor operation**
Review of the commissioning and operational experience of the Hinkley Point B AGR after three years' power operation. (E33). 494966
- temperature coefficient**
Fuel temperature coefficient of reactivity measurements at Hinkley Point 'B'. (E33). 463652
- HIPPURAN:**
mathematical models
The application of transform methods to Hippuran renograms. (C62). 473481
- radiopharmaceuticals**
In vitro stability of [¹³¹I]-iodohippurate. (B13, C62). 486707
- stability**
A study about different factors which increase the [¹³¹I] orthiodohippuric acid and [¹³¹I] albumin stability. (B13). 490439
- HIPPURIC ACID:**
bromine 80
On the propagation of ⁸⁰Br-biomolecules.⁸⁰Br-bromohippuric acid. (B13). [Data] 462766
- HIROSHIMA:**
medical examinations
Stomach cancer screening in the adult health study population. (C55). 491226
- HISTAMINE:**
heparin
The mechanism of histamine binding to heparin. (C11). [Data] 490916
- HISTIDINE:**
biological effects
Inactivation of Neurospora crassa conidia by singlet molecular oxygen generated by a photosensitized reaction. (C12; uv radiation). 487196
- radiolysis**
Exchangeable proton hyperfine couplings in free radical radiation products. (B14). 468940
- radioprotective substances**
Revised spectra for the inactivation of Haemophilus influenzae transforming DNA by monochromatic ultraviolet light: effect of histidine. (C12). [Data] 472933
- HISTOLOGICAL TECHNIQUES:**
Visualization of alcohol-induced rhabdomyolysis: a correlative radiotracer, histochemical, and electron-microscopic study. (C62; /sup 99m/Tc-HEDP (a diphosphonate)). 473477
- HISTONES:**
chemical radiation effects
Effect of gamma irradiation on chromosomal proteins from Yoshida ascites tumour chromatin. (C11). [Data] 476518
- radiolysis**
Radicals in gamma-irradiated biopolymers and natural complexes. (B14). 479281
- HITACHI TRAINING REACTOR:**
See HTR REACTOR
- HODGKINS DISEASE:**
antigens
HLA antigens in Hodgkin's disease of very long survival. (C63). 470196
- biomedical radiography**
Angiographic diagnosis of spleen and liver lymphogranulomatosis. (C61). 480248
- The effect of cobalt-irradiation on the lymph nodes detected by lymphangiography in malignant lymphomas. (C63). 494609
- chemotherapy**
Hodgkin's disease treated by chemotherapy and large field irradiation. (C63). 470189
- Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
- Radio- and combined therapy of lymphogranulomatosis. (C63). 494618
- diagnosis**
Application of computer and mathematical methods to clinico-roentgenological data analysis in gastrointestinal tract lymphogranulomatosis diagnosis. (C61). 494507
- Radiopaque and radioisotope lymphography in diagnosis of children lymphogranulomatosis. (C62, C61). 482386
- diagnostic techniques**
Prognostic significance of histologic subdivision of Hodgkin's disease nodular sclerosis. (C63). 461425
- glycoproteins**
Demonstration of lactoferrin in tumor tissue from two patients with positive gallium scans. (C62, C21). 487696
- heart**
Specific and postradiation pericarditis in lymphogranulomatosis. (C15). 476577
- nuclear medicine**
Efficiency estimation of radiodiagnosis in lymphogranulomatosis therapy. (C63, C62). 494579
- pregnancy**
Fetal dose with the 'Mantle' techniques in radiotherapy. (C63). 463478
- radionuclide kinetics**
⁶⁷Ga-subtraction scanning in Hodgkin's disease and lymphomas. (C62). 470125
- Demonstration of lactoferrin in tumor tissue from two patients with positive gallium scans. (C62, C21). 487696
- radiotherapy**
Complex (radio-, drug and surgery) therapy of lymphogranulomatosis. (C63). 494590
- Fetal dose with the 'Mantle' techniques in radiotherapy. (C63). 463478
- Haematologic evaluation after radiation therapy in Hodgkin's disease. (C63). 463479
- HLA antigens in Hodgkin's disease of very long survival. (C63). 470196
- Hodgkin's disease treated by chemotherapy and large field irradiation. (C63). 470189
- Long-term results of the E.O.R.T.C. randomized study of irradiation and vinblastine in clinical stages I and II of Hodgkin's disease. (C63). 491377
- Mantle treatment of Hodgkin's disease with ⁶⁰Co gamma rays. (C63). 480278
- Multifield irradiation of patients with Hodgkin's disease by 25 MeV electron and bremsstrahlung beams. (C63). 494626
- Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
- Prognostic significance of histologic subdivision of Hodgkin's disease nodular sclerosis. (C63). 461425
- Radio- and combined therapy of lymphogranulomatosis. (C63). 494618
- HODOSCOPES:**
comparative evaluations
Multiple Coulomb scattering and γ conversions in fiber scintillators vs multiwire proportional and drift chambers. (E16, E41). 494774
- fiber optics**
Survey of experiments for use of fine-grained hodoscopes. (E16, E41). 494844
- planning**
Detector development summary. (E41). 466818
- scintillation counters**
Detection system using scintillating optical fibers and image tube readout. (E16, E41). 494723
- specifications**
A high resolution beam hodoscope counter for use in very intense beams. (E16, E41). 470368
- Novel design for a hodoscope with 1 mm granularity. (E41; 200-GeV hadrons). 466778
- telescope counters**
A high resolution beam hodoscope counter for use in very intense beams. (E16, E41). 470368
- trigger circuits**
Track correlator as a fast trigger in the detection of π - μ Coulomb bound states. (E41). 466819

- uses
Survey of experiments for use of fine-grained hodoscopes. (E16, E41). 494844
- HOLIES:**
(Absence of electrons from otherwise filled electron bands; see also BLACK HOLES, CAVITIES, OPENINGS, BOREHOLES, and VOIDS.)
- trapping
Hole trapping levels in natural diamond nuclear detectors. (E41, A13). 492057
- HOLIFIELD HEAVY ION RESEARCH F:**
See *HHIRF ACCELERATOR*
- HOLLOW CATHODES:**
electron density
The hollow cathode arc discharge. (A14). 492828
impedance
Opto-galvanic spectroscopy in a uranium hollow cathode discharge. (A12). 485470
ion sources
Characteristics of EOS with hollow cathode. (D14). 476834
ionization
The hollow cathode arc discharge. (A14). 492828
spectrophotometry
Hollow sintered cathode spectral lamp. (E42). 488300
- HOLLOW FUEL RODS:**
strains
Study on the stressed-deformed state of a fuel element with a metal fuel. (E23). 488001
- HOLMIUM:**
absorption spectra
Systematic comparisons between the 4d spectra of lanthanide atoms and solids. (A12). [Data] 488888
crystal growth
Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24). 479353
electron microscopy
Electron microscopy of evaporated and sputtered Gd/Co and Ho/Co films. (A13). 474787
ion collisions
Projectile-charge-state dependence of target L-shell ionization by 1.86-MeV/amu fluorine and silicon ions and 1.8-MeV/amu chlorine ions. (A12). 477786
lithium 7 reactions
L-shell x-ray production cross sections due to ^1H , ^4He , and ^7Li ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520
order parameters
Order parameter of holmium in a magnetic field. (B22). [Data] 472686
physical radiation effects
Defect annealing in the hexagonal close packed heavy rare earth metals Gd, Tb, Dy, Ho, Er, Tm and Lu after electron irradiation at low temperatures. (B25). [Data] 469420
quantitative chemical analysis
Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676
solvent extraction
Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704
specific heat
Specific heat of holmium and terbium. (B22). [Data] 476319
- HOLMIUM ALLOYS:**
See also *HOLMIUM BASE ALLOYS*
coercive force
Temperature dependence of coercivity in some rare-earth-Fe₂ intermetallic compounds. (B22). 476239
crystal field
Limited quenching of the holmium moment by the crystal field in the (Gd,Y)Ni₂ cubic Laves phase compounds. (B22). 481847
domain structure
Domain boundary structure in orthoferrites. (A13). 492617
magnetic properties
Magnetic properties of R₃Pt₂ intermetallic compounds. (B22). 479392
Microstructure and magnetism in amorphous rare-earth-transition-metal thin films. II. Magnetic anisotropy. (B22). 479419
Ternary and quaternary rare earth cobalt magnetic materials with low reversible temperature coefficients. (B22). 479399
Ultrasonic studies below T/sub c/ in amorphous rare earth-iron alloys. (B22). 479401
magnetization
First order reorientation in HoAl₂. (A13). 488946
Limited quenching of the holmium moment by the crystal field in the (Gd,Y)Ni₂ cubic Laves phase compounds. (B22). 481847
magnetostriction
Magnetostriction of single crystals of intermetallic R₂Co₁₇ (R = Ho, Er, Tm, Lu) compounds. (B12). 475940
Permeability, magnetomechanical coupling and magnetostriction in grain-oriented rare earth-iron alloys. (B22, B21). 460747
permeability
Permeability, magnetomechanical coupling and magnetostriction in grain-oriented rare earth-iron alloys. (B22, B21). 460747
phase diagrams
Investigation into magnesium-holmium phase diagram. (B22). 469275
thermal expansion
The influence of hexagonal anisotropy on the thermal expansion of antiferromagnetic single-crystal Tb-50%Ho. (A13). [Data] 462196
- HOLMIUM BASE ALLOYS:**
tetragonal lattices
Crystal structures of R₂CoGa₈ compounds (R = Sm, Gd, Tb, Dy, Ho, Er, Tm, Lu, Y) and RCoGa₅ compounds (R = Gd, Tb, Dy, Ho, Er, Tm, Lu, Y). (B12). 493605
- HOLMIUM BORIDES:**
ferromagnetism
Interaction between superconductivity and magnetism in the pseudoternary system (Lusub(1-x)Hosub(x))Rh₂B₄. (B24, A17). 472721
magnetic moments
Magnetic interactions in ternary superconductors. (A17, B24). 475497
magnetic properties
Magnetic interactions in ternary superconductors. (A17, B24). 475497
neutron diffraction
Neutron scattering study of the magnetic transition in the reentrant superconductor Ho_{0.8}Er_{0.2}Rh₂B₄. (B23, A17). 490668
phase transformations
Neutron scattering study of the magnetic transition in the reentrant superconductor Ho_{0.8}Er_{0.2}Rh₂B₄. (B23, A17). 490668
superconductivity
Interaction between superconductivity and magnetism in the pseudoternary system (Lusub(1-x)Hosub(x))Rh₂B₄. (B24, A17). 472721
- HOLMIUM CHLORIDES:**
lattice parameters
Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
valence
Absorption spectrophotometric and x-ray diffraction evidence for mixed-valence compounds in anhydrous halides of lanthanide-actinide mixtures. (B24). 479517
- HOLMIUM COMPLEXES:**
chemical preparation
Investigation of different-ligand complexes of holmium and erbium with NTA and carbonate ion. (B12). 493669
Uranyl and lanthanide complexes of the 1,2-dipyridylethylene isomers. (B12, B13). [Data] 481690
chemical reaction kinetics
Formation constants of chelates of 7-bromo-8-hydroxy-quinoline-5-sulphonic acid with yttrium and some lanthanides. (B12). 462711
Kinetics and mechanism of ligand substitution of ethylenediaminetetraacetate in in EuMTB and HoMTB complexes. (B12). 486561
precipitation
The precipitation of the lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468837
The precipitation of lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468838
stability
Studies on lanthanides. Stability constants and thermodynamic functions for the formation of some lanthanides(III) CPTA complexes. (B12). 460512
Thermodynamic functions and stability constants of rare earths with monothiodibenzoylmethane. (B12). [Data] 481695
synthesis
Vapor complexes of samarium(III) and samarium(II) chlorides with aluminium(III) chloride. (B12). 465376
- HOLMIUM COMPOUNDS:**
See also *HOLMIUM BORIDES; HOLMIUM CHLORIDES; HOLMIUM FLUORIDES; HOLMIUM HYDRIDES; HOLMIUM OXIDES; HOLMIUM PHOSPHATES; HOLMIUM SULFATES; HOLMIUM SULFIDES*
adiabatic demagnetization
Enhanced nuclear magnetism. (A13). 477856
chemical preparation
Synthesis and properties of electrochemically oxidized dipthalocyanines of rare earths and americium. (B12, B13). 493667
crystal field
Neutron scattering studies of crystal field excitations in (RE)Mo₆Se₆. (B24, A17). 479522
faraday effect
Spin reorientation in HoIG investigated by means of Faraday effect. (A13). 474704
magnetization
Studies of the rare earth-iron interactions in the orthoferrites GdFeO₃ and HoFeO₃. (A13). 474879
- HOLMIUM FLUORIDES:**
dissociation energy
Potential energy curves and dissociation energies of hydrides, deuterides, oxides and fluorides of some rare earth elements. (B12). [Data] 484066
formation free enthalpy
The enthalpy of formation of holmium trifluoride. (B12). [Data] 493632
formation heat
The enthalpy of formation of holmium trifluoride. (B12). [Data] 493632
- HOLMIUM HYDRIDES:**
crystal growth
The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). [Data] 467414
magnetic properties
Magnetic properties of dihydrides and dideuterides of Er and Ho. (B23). 479487
microstructure
The growth and structure of epitaxial films of the rare-earth dihydrides. (A13). [Data] 467414
- HOLMIUM IONS:**
electron spin resonance
EPR investigation of Er³⁺, Nd³⁺ and Ho³⁺ in ThGeO₄. (A13). 477852

HOLMIUM ISOTOPES:

See also **HOLMIUM 148**; **HOLMIUM 149**; **HOLMIUM 150**; **HOLMIUM 151**; **HOLMIUM 152**; **HOLMIUM 154**; **HOLMIUM 155**; **HOLMIUM 159**; **HOLMIUM 161**; **HOLMIUM 165**; **HOLMIUM 166**; **HOLMIUM 167**; **HOLMIUM 169**

Investigation of nuclei near $N = 82$ and $Z = 64$ VIA radioactive decay of high-spin isomers. (A34). [Data] 475853

HOLMIUM OXIDES:

Flux growth of double oxides of niobium and rare-earth elements (Ln_2NbO_7). (B12). [Data] 481697

Preparation and structure of some Ln_2MoO_7 oxides. (B12). [Data] 462719

XPS studies of the charging effects for the non-conducting rare-earth oxides. (A12). 477804

Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561

Indirect exchange interactions in cubic lanthanide sesquioxides. (A13). 492561

Spin state of the CO^{3+} ion in RCoO_3 compounds with the GdFeO_3 structure. (A13). 481128

X-ray-fluorescence analysis of high-purity holmium oxide for common rare earth impurities. (B11). 486497

HOLMIUM PHOSPHATES:

Structure of the $\text{RbLn}(\text{PO}_3)_4$ type crystals and spectral luminescent properties of $\text{M}^{3+}\text{Nd}(\text{PO}_3)_4$. (B12). 490377

HOLMIUM SULFATES:

Sulfato-molybdates in the systems of $\text{Ln}_2(\text{MoO}_4)_3\text{-Ln}_2(\text{SO}_4)_3$, where $\text{Ln} = \text{Tb, Dy, Ho}$ and Er . (B12). 476113

HOLMIUM SULFIDES:

Neutron scattering observations on the magnetic phases of rareearth ternary superconductors. (B22, A17). 465629

A new phase in the magnetic superconductors. (A17). 481337

HOLMIUM 148:

Identification of ^{148}Ho and ^{149}Ho . (A34). [Data] 481603

HOLMIUM 149:

Identification of ^{148}Ho and ^{149}Ho . (A34). [Data] 481603

Identification of ^{148}Ho and ^{149}Ho . (A34). [Data] 481603

HOLMIUM 150:

Decay of the high-spin isomers in ^{150}Ho . (A34). 490248

Decay of the high-spin isomers in ^{150}Ho . (A34). 490248

Search for high-spin isomeric states in the rare-earth region. (A34). 490174

HOLMIUM 151:

Decay of the high-spin isomers in ^{151}Ho . (A34). 490248

Decay of the high-spin isomers in ^{151}Ho . (A34). 490248

HOLMIUM 152:

Decay of the high-spin isomers in ^{152}Ho . (A34). 490248

Decay of the high-spin isomers in ^{152}Ho . (A34). 490248

Search for high-spin isomeric states in the rare-earth region. (A34). 490174

HOLMIUM 154:

Nuclear data sheets for $A = 154$. (A33). 478631

Nuclear data sheets for $A = 154$. (A33). 478631

HOLMIUM 155:

Investigation of the $^{155}\text{Ho} \rightarrow ^{155}\text{Dy}$ decay. (A34). [Data] 486310

Investigation of the $^{155}\text{Ho} \rightarrow ^{155}\text{Dy}$ decay. (A34). [Data] 486310

High spin states in ^{155}Ho . (A34). 481554

HOLMIUM 159:

Lifetimes of ^{159}Dy and ^{161}Dy low lying excited states. (A34). [Data] 493334

HOLMIUM 161:

Lifetimes of ^{159}Dy and ^{161}Dy low lying excited states. (A34). [Data] 493334

HOLMIUM 165:

Measurement of neutron capture cross sections with Fe-filtered beam. (A34). [Data] 475859

magnetic dipole moments

Current densities in the projected Hartree-Fock approach. I. Magnetic moments. (A33). 490089

nuclear magnetic resonance

Limited quenching of the holmium moment by the crystal field in the $(\text{Gd,Y})\text{Ni}_2$ cubic Laves phase compounds. (B22). 481847

photon emission

γ -ray emission from oriented nuclei in a multiaxis nuclear spin system: $\text{sup}(166\text{m})\text{Ho}^{165}\text{Ho}$. (A13). [Data] 481130

HOLMIUM 165 TARGET:**argon 40 reactions**

Influence of angular momentum of the mass distribution width of heavy ion induced fission. (A33). 483775

iron 56 reactions

Neutron emission from the strongly damped reaction $^{156}\text{Ho} + ^{56}\text{Fe}$ at 8.5 MeV. (A34; Angular distribution). [Data] 475813

neutron reactions

Polarized neutron capture by polarized ^{165}Ho nuclei used to assign spins to ^{166}Ho levels. (A34). 483846

proton reactions

Preequilibrium and equilibrium deexcitation processes for $\text{Dy}(\alpha, \text{xn } \gamma)\text{Er}$ reactions at $E_{\text{sub}}(\alpha) = 90$ MeV and $^{165}\text{Ho}(\text{p, xnyp } \gamma)$ reactions at $E_{\text{sub}}(\text{p}) = 60$ MeV. (A34). 465124

HOLMIUM 166:**energy levels**

Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343

Polarized neutron capture by polarized ^{165}Ho nuclei used to assign spins to ^{166}Ho levels. (A34). 483846

photon emission

γ -ray emission from oriented nuclei in a multiaxis nuclear spin system: $\text{sup}(166\text{m})\text{Ho}^{165}\text{Ho}$. (A13). [Data] 481130

rotational states

Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343

HOLMIUM 167:**energy levels**

Levels in ^{167}Ho populated in the $(\text{t}(\text{pol}), \alpha)$ reaction. (A34). 462635

HOLMIUM 169:**energy levels**

Levels in ^{169}Ho populated in the $(\text{t}(\text{pol}), \alpha)$ reaction. (A34). 462635

HOLOGRAPHY:

Computer analysis of holographic interferograms for NDT applications. (E42). 461894

Holographic contouring. (E42). 461870

Holography explained in the language of potential scattering. (A11). 459662

Interference fringes of equal inclination and equal thickness in holographic interferometry. (E17). 487941

gamma radiation

Method for generation of 3-dimensional images with X-rays or GAMMA-rays. (E42). 482875

materials testing

Holographic deformation measurements for materials and component testing. (E17). 461570

Possibilities of NDT of fiber reinforced plastics with holography. (E17). 470477

x radiation

Method for generation of 3-dimensional images with X-rays or GAMMA-rays. (E42). 482875

HOMALITE:**photoelasticity**

Photoelastic studies of crack propagation and arrest in polymers and 4340 steel. (B22, B24, E32). 481820

tensile properties

Photoelastic studies of crack propagation and arrest in polymers and 4340 steel. (B22, B24, E32). 481820

HOMEOSTASIS:**man**

Hormone homeostasis of healthy people according to "in vitro" diagnostic data. (C62). 482461

HOMOGENEOUS MIXTURES:

See also **AQUEOUS SOLUTIONS**; **HYPERTONIC SOLUTIONS**; **SOLID SOLUTIONS**; **SOLUTIONS**

materials testing

Instrumental neutron activation analysis as a means of evaluation of reference sample homogeneity. (E17, B11). [Data] 484883

HOMOGENEOUS PLASMA:**backscattering**

Effects of nonlinear decay of backscattered light on the anomalous reflectivity. (A14). 478092

collision integrals

Binary correlation and convergent collision integral for a plasma. (A14). 485775

diffusion

Anomalous plasma diffusion across a strong magnetic field. (A14). 489166

earth magnetosphere

Self-polarization of a turbulent magnetoactive plasma. (B33). 494244

electric discharges

Density and potential distributions of the diffusion plasma column in a coaxial cylindrical discharge tube. (A14). 464281

electromagnetic radiation

Modulational instability from an intense elliptically polarized electromagnetic wave in a homogeneous unmagnetized plasma. (A14). 471720

Raman backscattering of circularly polarized electromagnetic waves propagating along a magnetic field. (A14). [Data] 475080

Resonance monochromatization of transverse amplitude-modulated waves in a plasma. (A14). 489142

- Stimulated backscattering of electromagnetic ordinary waves from extraordinary waves below the upper hybrid frequency. (A14). 478114
- energy transfer**
- Nonlinear frequency shifts of isotropic oscillations and energy fluxes of the Langmuir turbulence. (A14). 489229
- equilibrium**
- Ionisation equilibrium equation of state: one-component and multi-component plasmas. (A14). 492761
- ion waves**
- On the propagation of magneto-ionic rays in a shearing plasma. (A14, B33, A15). 489247
- ionization**
- Ionisation equilibrium equation of state: one-component and multi-component plasmas. (A14). 492761
- laser radiation**
- Effects of nonlinear decay of backscattered light on the anomalous reflectivity. (A14). 478092
- laser-radiation heating**
- Screening effect on the plasma heating by inverse bremsstrahlung. (A14). 478110
- magnetic fields**
- Anomalous plasma diffusion across a strong magnetic field. (A14). 489166
- On the propagation of magneto-ionic rays in a shearing plasma. (A14, B33, A15). 489247
- parametric instabilities**
- Parametric excitation of acoustic waves in piezoelectric solid state magnetoplasma. (A13). 477885
- plasma density**
- Model applied to an argon plasma. Application for stationary electric arc. (A12). [Data] 488787
- plasma instability**
- Three-wave parametric-decay interaction with arbitrary dissipation in homogeneous plasmas. (A14). 462317
- plasma waves**
- Modulational instability from an intense elliptically polarized electromagnetic wave in a homogeneous unmagnetized plasma. (A14). 471720
- Stimulated backscattering of electromagnetic waves from electrostatic waves in a magnetized plasma. (A14). 489375
- tensors**
- Current responses of all orders in a collisionless plasma. II. Homogeneous plasma. (A14). 489241
- turbulence**
- Direct interaction approximation and plasma turbulence theory. (A14). 471631
- wave packets**
- Nonlinear evolution of three coupled wave packets in homogeneous plasmas. (A14). 462273
- wave propagation**
- Toroidal electromagnetic modes in isotropic homogeneous plasma and in vacuum. (A14). 462290
- weakly ionized gases**
- Calculation of the scattering spectra from weakly ionized plasmas using two-dimensional probability densities. (A14). 489225
- HOMOGENEOUS REACTORS:**
- See also ACPR REACTOR; AVR REACTOR; FIR-1 REACTOR; GAS FUELED REACTORS; PEBBLE BED REACTORS; PLASMA CORE ASSEMBLY; PRNCL-77 REACTOR; SLURRY REACTORS; THTR-300 REACTOR; TREAT REACTOR; TRIGA TYPE REACTORS; TRIGA-I-HANFORD REACTOR; TRIGA-2-LJUBLJANA REACTOR
- critical mass**
- Minimum optical mass of ^{235}U aqueous solution with BeO reflector in spherical geometry. (E21). 480565
- neutron reflectors**
- Minimum optical mass of ^{235}U aqueous solution with BeO reflector in spherical geometry. (E21). 480565
- reactor cores**
- Calculation of laminar incompressible fluid flow and heat transfer during spherical annulus filling. (E21, E11). 480578
- HOMOZYGOTES:**
- See HYBRIDIZATION
- HONEY:**
- quality control**
- The use of stable isotopes for the characterization of honeys, their origin and adulteration. (C31). 469839
- HONG KONG:**
- pollution**
- Nondestructive multi-element determination of air particulates in Hong Kong. (B11, B33). [Data] 472329
- HOOKWORM:**
- gamma radiation**
- Effect of gamma-irradiation on the survival and development of the infective larvae of the hookworm, *Gaigeria pachyscelis*. (C14). 472940
- sheep**
- The use of gamma-radiation-attenuated larvae of *Gaigeria pachyscelis* Railliet and Henry, 1910, for vaccination in lambs. (C14, C42). [Data] 472941
- HORDEUM:**
- See BARLEY
- HORMONES:**
- See also more specific entries as listed in the *INIS Thesaurus*.
- biological radiation effects**
- Influence of thymic humoral factor (THF) on primary immune response in irradiated mice. (C14). 466101
- immunity**
- Influence of thymic humoral factor (THF) on primary immune response in irradiated mice. (C14). 466101
- quantity ratio**
- Method to determine the thyroid hormone content. (C62). 491321
- radioimmunoassay**
- Development and validation of a specific radioimmunoassay for somatostatin in human plasma. (C45). 487367
- Immunoreactive somatomedin A in human serum. (C62). [Data] 487693
- Radioimmunoassay dose limits. (C45). 479997
- Radioimmunoassay of hormones and metabolites in blood serum and plasma. (C62; Patent). 487703
- Use of polyethylene glycol in radioimmunoassay of human placental lactogen. (C62; ^{125}I tracer technique). 470092
- radiosensitivity**
- Can animal and in vitro studies give new, relevant answers to questions concerning mammographic screening for human breast cancer. (C15, C61). 487242
- HORNBLende:**
- adsorption**
- Sorption of americium on major rock-forming minerals. (C52, E52, B31). 480011
- fission tracks**
- Annealing characteristics of fission tracks in minerals and their applications to earth sciences. (B31). [Data] 472834
- HORSES:**
- contamination**
- Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
- radiotherapy**
- The use of ionising radiation for the treatment of injuries to flexor tendons and supporting ligaments in horses. (C63). 494593
- skin diseases**
- Treatment of periorcular tumours of horses using radioactive gold 198 grains. (C64). 482496
- HOSPITALS:**
- nuclear medicine**
- The provision of a district nuclear medicine service. (C61). 473343
- radiation protection**
- A note on some behavioral aspects of radiation protection staff working in hospitals around Delhi. (C54). 473289
- HOT-CELL REACTIVATION:**
- radiosensitivity**
- Action spectra for the ultraviolet and visible light inactivation of phage T7: effect of host-cell reactivation. (C12). 461020
- HOT ATOM CHEMISTRY:**
- (Chemical reactions of atoms or ions of high kinetic energies (more than 1 eV) resulting from nuclear transformations.)
- amino acids**
- ^{11}C -recoil-chemistry with amino acids in the solid phase. (B13). [Data] 490430
- cobalt complexes**
- Hot atom chemistry of radioactive cobalt in tris(β -diketonato)cobalt(III). (B13). [Data] 465439
- cobalt 60**
- Studies of the yields of $^{57}\text{Fe}(\text{II})$ -species produced after the EC-decay and of $^{60}\text{Co}(\text{II})$ -species produced in the (n, γ) reaction in cobalt(III) coordination compounds. (B13). 472493
- information retrieval**
- Edge-punched literature retrieval system "hot atom chemistry". (F32, B13). 466939
- iron 57**
- Studies of the yields of $^{57}\text{Fe}(\text{II})$ -species produced after the EC-decay and of $^{60}\text{Co}(\text{II})$ -species produced in the (n, γ) reaction in cobalt(III) coordination compounds. (B13). 472493
- retention functions**
- ^{11}C -recoil-chemistry with amino acids in the solid phase. (B13). [Data] 490430
- selenium 81**
- On the chemical effects of the nuclear isomeric transition sup(81m)Se-sup(81)Se in potassium selenate. (B12). 472449
- tritium**
- Effect of $\text{Ni}(\text{CO})_4$ on the product yields in the T+hydrocarbons systems. (B13). [Data] 490433
- HOT CELLS:**
- (Shielded chambers for remote handling of radioactive materials.)
- aerosols**
- Activity and size distributions of aerosols in the Laboratory for experimental fuels AEE Winfrith. (C52, B12). 463385
- remote handling**
- Process and device for contamination-free installation or removal of objects through an opening in the wall of a room contaminated by radioactivity. (E15). 482582
- remote handling equipment**
- Selection of the reference concept for the surface examination stations in the fuels and materials examination facility. (E15). 473643
- remote viewing equipment**
- Selection of the reference concept for the surface examination stations in the fuels and materials examination facility. (E15). 473643
- shielding**
- Radiological protection problems associated with removal of biological shields. (C52, E15). 461224
- specifications**
- In-cell facility for performing mechanical-property tests on irradiated cladding. (B25, B22, E17, E23). 460822
- spent fuel elements**
- Metallographic examination of irradiated nuclear fuel elements at Radiometallurgy Hot Cell Facility. (E15). 494716

HOT LABS:

- decontamination**
Progress report, July 1975 - September 1977. (F41, B11). 474371
- radiation hazards**
Source term and radiation dose estimates for postulated damage to the 102 Building at the General Electric Vallecitos Nuclear Center. (C54). 473293
- reactor safety**
Hot cell apparatus for research and technology. (E15). 461531
- reprocessing**
Hot cell apparatus for research and technology. (E15). 461531
- specifications**
Design and installation of the operational chemistry facility in support of LWBR binary (²³⁵U) fuel production. LWBR development program. (B11, E15). 486511
- working conditions**
Microclimate survey of laboratories handling unsealed radiation sources. (C55). 466369
- HOT PLASMA:**
- bag model**
Multiple water-bag model and nonlinear plasma oscillations: appearance of a new pole. (A14). 462325
- beam optics**
conversion of an ordinary EM beam into an extraordinary beam in a magnetoplasma. (A14). 489366
- boltzmann statistics**
Heat conduction and magnetic field induction in the presence of cold- and hot-electron Maxwellian distributions. (A14). 485806
- Slowing-in distribution of energetic charged particles released in infinite Maxwellian thermonuclear plasmas: Classical regime. Pt. 2. (A14). 471657
- capacitors**
Exact treatment of the warm inhomogeneous plasma capacitor. (A14). [Data] 478164
- charged-particle transport**
Theory of high temperature plasmas. Final report. (A14; Summary reports on equilibrium, stability, and transport studies). 474985
- charged-particle transport the collisionless plasma**
One-dimensional transport solutions for EBT-II. (A14). 485746
- Cross-focusing of two co-axial Gaussian electromagnetic beams in a magnetoplasma and plasma wave generation. (A14). [Data] 471725
- collisions**
Elementary reactions in thermonuclear fusion plasmas. (A14). 464299
- confinement**
On the plasma confinement in high β devices. (A14). 483362
- cyclotron radiation**
Electron cyclotron emission from thermal plasmas. (A14). 489154
- decay instability**
Decay instability of the alfvén waves in a hot plasma. (A14). 483335
- electric conductivity**
Electrical conductivity of a high-temperature plasma in a uniform magnetic field. (A14). 467584
- electromagnetic radiation**
conversion of an ordinary EM beam into an extraordinary beam in a magnetoplasma. (A14). 489366
- electron drift**
Transport of electron thermal energy in high temperature plasmas. (A14). 485682
- electron emission**
Electron cyclotron emission from thermal plasmas. (A14). 489154
- electron rings**
Experiments on plasma confinement by relativistic-electron-beam ring. (A14). [Data] 483377
- electron temperature**
Pulse pileup effects on plasma electron temperature measurements by soft X-ray energy analysis. (E42, A14). 485139
- electron-ion collisions**
Electron-impact ionization-rate coefficients for lithiumlike nitrogen and oxygen. (A12, A14). 467294
- first wall**
The application of fluorescence spectroscopy to the study of plasma-wall interaction in magnetic-confinement devices. (A14). 474960
- gas blankets**
On the stability of low frequency current driven modes in the boundary layers of gas insulated plasmas. (A14). 489289
- guiding-center approximation**
Guiding center drift equations. (A14). 464270
- hamiltonians**
Beat Hamiltonians and generalized ponderomotive forces in hot magnetized plasma. (A14). 489210
- hybrid resonance**
Lower hybrid heating associated with mode conversion on the Wisconsin octupole. (A14). [Data] 483385
- impurities**
Ambient boundary layer flow as a mechanism for diverting plasma impurities. (A14). 481202
- On effect of injected neutrals on impurities radiation in thermonuclear plasma. (A14). 492786
- inhomogeneous plasma**
Exact treatment of the warm inhomogeneous plasma capacitor. (A14). [Data] 478164
- ion acoustic waves**
Ion-acoustic solutions and shock waves in multicomponent plasmas. (A14). 478024
- Propagation of ion acoustic waves in drifting warm plasma under Grad's thirteen-moment approximation. (A14). 489357
- ions**
Experiments on hot-ion production in toroidal plasmas by applying pulsed electric fields along and across the toroidal magnetic field. (A14). [Data] 464356
- kinetic equations**
Theory of high temperature plasmas. Final report. (A14; Summary reports on equilibrium, stability, and transport studies). 474985
- kinetics**
Electron-impact ionization-rate coefficients for lithiumlike nitrogen and oxygen. (A12, A14). 467294
- laser radiation**
Absorption of intense laser radiation, caused by acoustic plasma turbulence. (A14). 478133
- Investigation of the interaction of high intensity laser light with solids and hot plasma using X-ray spectroscopic technique. (A14, A13). 478196
- Theoretical and experimental study on the laser beam absorption in a plane target during the one-dimensional spread stage. (A14). 477985
- laser-produced plasma**
Plasma production and heating by glass-CO₂-hybrid laser system for magnetic traps. (A14). 464459
- laser-radiation heating**
Plasma production and heating by glass-CO₂-hybrid laser system for magnetic traps. (A14). 464459
- limiters**
Ambient boundary layer flow as a mechanism for diverting plasma impurities. (A14). 481202
- linear theta pinch devices**
End plugging of a hot linear theta pinch. (A14). 464250
- magnetic fields**
Beat Hamiltonians and generalized ponderomotive forces in hot magnetized plasma. (A14). 489210
- mathematical models**
A model of complete steady state in hot homogeneous plasma. (A14). 464457
- parametric instabilities**
Multiple water-bag model and nonlinear plasma oscillations: appearance of a new pole. (A14). 462325
- Parametric instabilities in weakly-inhomogeneous hot plasmas. (A14). 464442
- plasma diagnostics**
Electron temperature measurements from cyclotron emission in T - 10 Tokamak. (A14). 489124
- plasma waves**
Cross-focusing of two co-axial Gaussian electromagnetic beams in a magnetoplasma and plasma wave generation. (A14). [Data] 471725
- On self-consistent waves and their stability in warm plasma. (A14). 478106
- radiation transport**
X-ray transport in a Ni plasma. (A14). 489172
- rf systems**
Experiments on hot-ion production in toroidal plasmas by applying pulsed electric fields along and across the toroidal magnetic field. (A14). [Data] 464356
- scattering**
Collision effects on light scattering by plasmas containing ionized impurities. (A14). 467699
- shock waves**
Hemispherical electrostatic shock-like waves and their convergence. (A14). [Data] 478069
- Ion-acoustic solutions and shock waves in multicomponent plasmas. (A14). 478024
- solitons**
Cylindrical solitons in a warm, multi-ion plasma. (A14). 462365
- synchrotron radiation**
Synchrotron radiation from high temperature plasmas. (A14). 462269
- Synchrotron radiation from high temperature plasmas. (A14). 485690
- thermal conductivity**
Heat conduction and magnetic field induction in the presence of cold- and hot-electron Maxwellian distributions. (A14). 485806
- thermal diffusion**
Transport of electron thermal energy in high temperature plasmas. (A14). 489138
- thermonuclear reactions**
Elementary reactions in thermonuclear fusion plasmas. (A14). 464299
- tokamak devices**
Plasma-surface interactions in tokamaks. (A14, A12). 467621
- Soft X-ray measurements of the impurity density in DITE. (A14). 481193
- toroidal configuration**
Transport of electron thermal energy in high temperature plasmas. (A14). 489138
- wave propagation**
Propagation of ion acoustic waves in drifting warm plasma under Grad's thirteen-moment approximation. (A14). 489357
- HOT SPRINGS:**
See THERMAL SPRINGS
- HOUGH-POWELL DEVICES:**
See FLYING SPOT DIGITIZERS
- HOURS LIVING RADIOISOTOPES:**
See also more specific entries as listed in the INIS Thesaurus.
- HPCI:**
See HIGH PRESSURE COOLANT INJECTION
- HPD DEVICES:**
See FLYING SPOT DIGITIZERS
- HPL:**
radioimmunoassay
Discrete modular system for automation of radioimmunoassay of

- serum choriomammotropin. (C62; ¹²⁵I tracer technique). 461405
- radioimmunology**
- Radioimmunological investigations in obstetrics and gynecology. (C62). 482349
- HPRR REACTOR:**
- specifications**
- Technical specifications: Health Physics Research Reactor. (E36). 474007
- HTGR PEACH BOTTOM REACTOR:**
- See PEACH BOTTOM-1 REACTOR
- HTGR TYPE REACTORS:**
- See also AVR REACTOR; DRAGON REACTOR; PEACH BOTTOM-1 REACTOR; THTR-300 REACTOR; VRAIN REACTOR
- Corrosion of Alloy 800H in caustic-contaminated superheated steam at 538°C (1000°F). (E33, B15). 480657
- Gas-Cooled Reactors: the importance of their development. (E33, E35, E30). 461720
- Nuclear closed-cycle gas turbine (GT-HTGR): a utility power plant for the year 2000. (E33). 461723
- Sliding wear studies of sprayed chromium carbide-nichrome coatings for gas-cooled reactor applications. (B23, E33). 465693
- after-heat removal**
- Cooling system for HTR reactors. (E33). 482782
- austria**
- HTR research and development in Austria. (E33). 470709
- blowers**
- High cycle fatigue of Type 422 stainless steel. (E33, B22; HTGR). 473938
- cesium 137**
- Fission product release and playout in HTGRs. The CPL 2 experiments in the Pegase experimental reactor at Cadarache Nuclear Research Center (France). (E33). 466706
- coated fuel particles**
- Advances in HTR fuel matrix technology. (E33). 488106
- DASH: a multicomponent time-dependent concentration diffusion with radioactive decay program. (E33; HTGR). 488081
- Detection of gas-permeable fuel particles for high-temperature gas-cooled reactors. (E33). 473939
- Effect of deposition conditions on the properties of pyrolytic SiC coatings for HTGR fuel particles. (E33, B23). 461730
- Failure mechanisms in high temperature gas cooled reactor fuel particles. (E33, B23). 488104
- Fission product behavior in HTGR fuel particles made from weak-acid resins. (E33). 477264
- HTGR fuel rod deconsolidation. (E33). 470718
- Influence of ZrC and SiC additives on the thermal migration of BISO-coated (Th,U)O₂ kernels. (E33). 466712
- Method to manufacture fuel and breeder particles. (E33). 484971
- Operation and postirradiation examination of ORR capsule OF-2: accelerated testing of HTGR fuel. (E33). 473940
- Performance of HTGR fuel in HFIR capsule HT-33. (E33). 491940
- Postirradiation examination of recycle test elements from the Peach Bottom Reactor. (E33, B25). 470717
- Some calculations of the failure statistics of coated fuel particles. (E33; HTGR). 473928
- computer codes**
- Practical use of some techniques and codes for physical calculation of a HTGR type reactor. (E33). [Data] 494961
- construction**
- The HTR nuclear heat system in connection with process heat plants and electricity generators. (E33). 470694
- containment buildings**
- Containment design options for the HTGR: an application of probabilistic risk assessment. (C52, E33). 487405
- Pressure suppression device. (E33). 470720
- coolants**
- To the problem of choice of coolant for high-temperature gas cooled reactor operating in power generating system. (E21). 491713
- district heating**
- Applications of the HTGR - a Russian view of combined systems. (E33). 477259
- Engineering and economic aspects of centralized heating from nuclear boilers. (E30, F11). [Data] 494929
- ecs**
- Emergency core cooling method for a HTGR type reactor. (E33). 470710
- economics**
- Gas-cooled reactors: the importance of their development. (E33, E35). 491925
- efficiency**
- Method for the operation of a nuclear power plant with an operation gas heated up in a high temperature reactor and a nuclear power plant for carrying out the method. (E33). 473922
- electric power**
- HTGR applications development in the United States. (E33). 477255
- environment**
- Fuel cycle for 1000-Mw high-temperature gas-cooled reactor. (C52, C50). [Data] 487555
- fabrication**
- Production and operating behaviour of HTR fuel elements. (E33, E23). 470702
- federal republic of germany**
- The HTR as an advanced reactor for the electricity and heat market. (E33). 484968
- fission products**
- Carbon-14 production in nuclear reactors. (E31, E32, E33). 473859
- Method of gettering metallic fission products formed in nuclear reactions in high temperature reactors. (E35). 473956
- france**
- Gas cooled reactor experience and programs in France. (E33). 482778
- Gas cooled reactor experience and programs in France. (E33). 463649
- fuel assemblies**
- Fuel arrangement for high temperature gas cooled reactor. (E33; Patent). 461731
- Nonlinear dynamic analysis of prismatic elements for high-temperature gas-cooled reactor cores. (E33). 491937
- Nuclear reactor with fuel column coolant regulation. (E33; Patent; HTGR). 461727
- fuel cycle**
- Acid in perchloroethylene scrubber solutions used in HTGR fuel preparation processes. Analytical chemistry studies. (E51). 461922
- Fuel cycle cost studies: fabrication, reprocessing, and refabrication of LWR, SSCR, HWR, LMFBR, and HTGR fuels. (F12, B16). 466917
- Fuel cycle for 1000-Mw high-temperature gas-cooled reactor. (C52, C50). [Data] 487555
- Gas-cooled reactors: the importance of their development. (E33, E35). 491925
- Krypton absorption in liquid CO₂ (KALC): effects of the minor components N₂, CO, and Xe. (E51, B16). 461918
- Large high-temperature gas-cooled reactor medium-enriched uranium spent fuel element definitions and block flows. Volume II. (E33, F12). 470722
- Large high-temperature gas-cooled reactor medium-enriched uranium spent fuel element definitions and block flows. (E33, F12). 470721
- Material control and accountability aspects of safeguards for the USA ²³⁵U/Th fuel recycle plant. (F41, B16). 471153
- Material control in nuclear fuel fabrication facilities. Part I. Fuel descriptions and fabrication processes. P.O. 1236909 Final report. (F42, B23, B21). 471167
- Production control in HTGR fuel rod fabrication. (B21, B23). 486843
- State of investigations of the HTR fuel cycle. (E33, F12). 470695
- Stress and vibration measurement in the unifame cold engineering-scale HTGR fuel element size reduction system. (B16). 486798
- fuel element failure**
- Measurement and modelling of postirradiation fission product release from HTGR fuel particles under accident conditions. (E33). 461726
- fuel elements**
- Fission product holdup in graphite. (E33; HTGR). 461712
- In-pile steam oxidation of model HTGR fuel elements. (E33, B15). 466703
- Method for the fuel element production for high temperature reactors. (E33). 466705
- Method to manufacture breeder kernels or fuel and breeder kernels for nuclear reactor fuel elements. (E33). 488094
- Method to produce graphite pressed powder and graphite pressed masses to fabricate graphite moulds. (E33). 488092
- Nuclear power plant with a gas-cooled HTR with block-shaped or spherical fuel elements. (E33). 470708
- Production and operating behaviour of HTR fuel elements. (E33, E23). 470702
- fuel particles**
- Irradiation performance of HTGR fuel in HFIR capsule HT-31. (B23). 479510
- Method and installation to produce uniform fuel and/or fertile ¹⁵Pu particles. (E33). 466707
- fuel rods**
- Equivalent thermal conductivity for one-dimensional channel thermal calculation of multi-hole type HTGR fuel. (E21). 491708
- MEU/Th fuel cycle optimization for the Lead Plant. (E33). 461725
- Microcomputer system for controlling fuel rod length. (E42, E33; HTGR). 477443
- Performance of HTGR fuel in HFIR capsule HT-33. (E33). 491940
- Postirradiation thermal analysis of capsule P13T. (E33; HTGR). 461721
- fuel scanning**
- Method for distinguishing and separating spherical fuel elements of high temperature reactors. (E33). 488091
- gas flow**
- Nuclear facility with closed working gas loop. (E33). 482775
- gas turbines**
- Direct-cycle HTGR work draws near prototype development. (E33; Using closed cycle gas turbines). 466708
- Forty years of experience on closed-cycle gas turbines. (E33). 463645
- The high-temperature helium test plant (HHV). (E33, E22). 470714
- HTGR gas turbine program. Semiannual progress report for the period ending March 31, 1979. (E33). 494964
- Method for the operation of a nuclear power plant with an operation gas heated up in a high temperature reactor and a nuclear power plant for carrying out the method. (E33). 473922
- gettering**
- Method of gettering metallic fission products formed in nuclear reactions in high temperature reactors. (E35). 473956
- graphite**
- Ultrasonic nondestructive testing for nuclear graphite. (E17). 491702
- heat exchangers**
- Design of a new compact recuperator. (E22, E33, E11). 482692
- Design of a new compact recuperator. (E22, E33, E11). 482693
- Development of Co-free Ni-base superalloy for HTGR. (E33, B22). 470701
- Simplified inelastic analysis in helical coil heat exchanger design. (E33; HTGR). 488103
- Vertical auxiliary heat exchanger for a gas-cooled nuclear reactor. (E33). 482777

- industry**
- Utilities' demands on an HTR power plant. (E33). 470704
- international cooperation**
- HTR research and development in Austria. (E33). 470709
- International cooperation in HTR development. (E33). 470693
- The Swiss R+D programme in the framework of the HHT project. (E33). 470712
- mechanical structures**
- Automation of the testing procedure. (E33). 491922
- neutron reflectors**
- Reflector ceiling for high temperature reactors. (E33). 482781
- Side reflectors for high temperature nuclear reactors. (E33). 473937
- operation**
- The HTR nuclear heat system in connection with process heat plants and electricity generators. (E33). 470694
- State of development of the HTR for power generation. (E33). 470706
- planning**
- International cooperation in HTR development. (E33). 470693
- Nuclear research in the Federal Republic of Germany. (F61, E33). 462060
- plutonium recycle**
- Radiological implications of plutonium recycle and the use of thorium fuels in thermal power reactor operations. (F12; HTGR). 474345
- power generation**
- State of development of the HTR for power generation. (E33). 470706
- power supplies**
- The role of the HTR in the Federal Republic of Germany power supply. (E33). 470699
- Utilities' demands on an HTR power plant. (E33). 470704
- pressure vessels**
- Analytical methods for determining the inelastic response of prestressed concrete reactor vessels and vessel closures. (E33; HTGR). 466701
- Comparison of elastic-plastic and variable modulus-cracking constitutive models for prestressed concrete reactor vessels. (C52, E33, B24). 473198
- Model research on a prestressed pressure vessel in a gas cooled nuclear reactor. (E17, E33). 473750
- PCRv design verification and support at Oak Ridge National Laboratory. (E33, E35). 494962
- PCRv structural response verification. (E33; HTGR). 473919
- Plan for development of an optimized PCRv for an HTGR power plant. (E33). 488090
- Prestressed concrete vessels suitable for helium high temperature reactors. (E33). 488096
- Requirements for thermal insulation on prestressed concrete reactor vessels. (E33; HTGR). 461728
- Structural model testing for prestressed concrete pressure vessels: a study of grouted vs nongrouted posttensioned prestressing tendon systems. (E33; HTGR). 477261
- primary coolant circuits**
- Chemical reactions in the helium impurities loop. (E33; HTGR). 461716
- Duplex tube steam reformer development program. (E30, E33). 477192
- Method for preventing leak of primary coolant in separation valves of reactor cooling system. (E33). 473933
- process heat**
- Applications of the HTGR - a Russian view of combined systems. (E33). 477259
- The effects of nuclear process heat on the coal sector. (E33, F11). 473930
- HTGR applications development in the United States. (E33). 477255
- Nonelectrical applications of HTGRs. (E33). 463647
- pumps**
- Heat barrier for high temperature circulating pumps. (E33). 473920
- radioactivity transport**
- Fission product migration deposition of caesium on oxidised metals. (B15, E33). 481755
- Measurements of impurity migration in graphite at high temperatures using a proton microprobe. (C52, B24, E33; HTGR cores). 461294
- reactor accidents**
- Aerosol formation from core graphite heated in dry and moist helium. (C52, E33; HTGR). 461302
- Fuel elements and fuel element materials. Experimental facilities for fission products lift-off tests. (E33). 473918
- reactor components**
- Effect of aging and cold working on the high-temperature low-cycle fatigue behavior of alloy 800H. Part I. The effect of hardening processes on the initial stress-strain curve. (B22, E33). 469319
- reactor control systems**
- A heuristic approach to reinforcement learning control of a 1015-MW(e) HTR-helium turbine plant. (E24). 491801
- A nuclear reactor system comprising control apparatus. (E24). 477165
- reactor cooling systems**
- Duplex tube steam reformer development program. (E30, E33). 477192
- Gas cooled HTR. (E33). 473936
- reactor cores**
- Core design considerations for a large gas turbine HTGR. (E33). 466710
- Nonlinear response to the multiple sine wave excitation of a softening-hardening system. (E33; HTGR). 491926
- One-fifth scale full-array test report. Final report. (C52, E33). 480131
- One-fifth-scale dowel force test report. (C52, E33; HTGR). 491189
- Three-dimensional computer code for the nonlinear dynamic response of an HTGR core. (C52, E33; OSC3D code). 494440
- reactor fueling**
- Method of operating a nuclear reactor. (E33). 477260
- Results of R+D activities in the HTR projects PNP, HHT, and NFE. (E33). 470705
- reactor materials**
- Advanced gas cooled nuclear reactor materials evaluation and development program. Selection of candidate alloys. Vol. 1. Advanced gas cooled reactor systems definition. (E33, B22). 491929
- Advanced gas cooled nuclear reactor materials evaluation and development program. Progress report, April 1-June 30, 1978. (E30, E33). 461663
- Correlation of high cycle and low cycle fatigue data for some HTGR structural metals. (E33, B22). 461729
- Creep and fatigue properties of Incoloy 800H in a high-temperature gas-cooled reactor (HTGR) helium environment. (E33, B15). 461715
- Effect of a helium environment on the mechanical properties of HTGR primary system metals. (E33, B22). 461714
- Effect of fission product interactions on the corrosion and mechanical properties of HTGR alloys. (E33, B15; HTGR). 461713
- Fundamental studies on electron beam welding of heat-resistant superalloys for nuclear plants (Report I). Effect of welding conditions on some characteristics of weld bead. (B21, E33, B22). 469038
- Materials for advanced HTR reactors. (E33). 470703
- Sublimation phenomena in H451 graphite. (E33, B15). 488105
- reactor safety**
- AIPA-methodology reviewed, improved and applied to German HTGRs. (C52, E33). 487464
- Automatic cut-off device in flow direction. (E33, C52). 482779
- Safety of HTR reactors. (E33). 470707
- THTR-300-MW and HTR-1160-MW. (E33). 491939
- reactor technology**
- Nuclear research in the Federal Republic of Germany. (F61, E33). 462060
- Social nuclear energy problems. (E33, C52). 480659
- regulating rods**
- Shutdown concept for large high temperature reactors. (E24, E33). 484933
- research programs**
- Gas cooled reactor experience and programs in France. (E33). 482778
- risk analysis**
- HTGR risk assessment study: highlights of update. (C52, E33). 487509
- Safety study for high temperature reactors under German site conditions. (E33). 461722
- rod ejection accidents**
- Comparison of one and two-dimensional models of a rod ejection accident in large HTGRs with feedback effects. (C52, E33). 494406
- safety analysis**
- Safety study for high temperature reactors under German site conditions. (E33). 488082
- Studies on the effects of the hypothetical accidents in HTR reactors. (phase 1). HSK 1. Pt. 1. (E33). 466704
- seismic effects**
- The effects of soil-structure interaction modeling techniques on in-structure response spectra. (C52). 461230
- simulation**
- Digital simulation of a commercial scale high temperature gas-cooled reactor (HTGR) steam power plant. (E33). 488101
- specifications**
- Process heat reactor design and analysis. Final report. (E30, E33; HTGR). 466653
- spent fuel elements**
- Large high-temperature gas-cooled reactor medium-enriched uranium spent fuel element definitions and block flows. Volume II. (E33, F12). 470722
- Large high-temperature gas-cooled reactor medium-enriched uranium spent fuel element definitions and block flows. (E33, F12). 470721
- springs**
- Spring unit especially intended for a nuclear reactor core. (E33; HTR type reactors). 470692
- steam generators**
- CSTRES. A computer program for evaluating the thermally induced interaction between helical tube bundles and their support plates. User's manual. (E33; HTGR). 466713
- Heat exchanger with a series of straight tube nests. (E33). 473921
- Preliminary design study of removable integral steam generator units of the multiple helically wound tube type for a 1250 MW(th) H.T.G.C. reactor. (E33). 488089
- Weld performance in high-temperature gas-cooled reactors. (E33). 473924
- supports**
- Supporting structure for the core of a high-power gas-cooled HTR. (E33). 473923
- switzerland**
- The Swiss R+D programme in the framework of the HHT project. (E33). 470712
- thermal efficiency**
- Analysis of the efficiency of NPP with gas cooled reactors in the wide range of initial temperatures. (E33). 488093

- thorium cycle**
Iodine and ruthenium volatility in thorium fuel reprocessing. 486829
Interim development report. (B16, E50).
MEU/Th fuel cycle optimization for the Lead Plant. (E33). 461725
Radiological implications of plutonium recycle and the use of thorium fuels in thermal power reactor operations. (F12; HTGR). 474345
Thorium fuel cycle: a nuclear strategy and fuel recycle technology. (F12, E31, E32, E35, E33). 462003
- ussr**
Prospects for usage and basic problems of introduction of HTGR into technological processes and power energetics. (E33). 488095
- HTR REACTOR:**
nuclear power plants
Prospects for the high-temperature reactor. (E33). 491934
reviews
Nuclear fuel cycle. Vol. 1. (B16, E23). 469023
- HUBBLE EFFECT:**
boundary conditions
HI profile distances and the Hubble constant. (A15). 467812
mathematical models
Limits to the value of the Hubble constant deduced from observations of clusters of galaxies. (A15). 475195
measuring methods
A new determination of the Hubble constant. (A15). 492906
reviews
Distances and redshift of the Virgo cluster and Hubble's constant. (A15). 467905
- HUBBLE-HUMASON SHIFT:**
See **HUBBLE EFFECT**
- HUMAN CELLS:**
See **ANIMAL CELLS**
- HUMAN PLACENTAL LACTOGEN:**
See **HPL**
- HUMAN POPULATIONS:**
See also **LAPPS**; **URBAN POPULATIONS**
Accident considerations for emergency response exercise scenarios. (C52, E31, E32, C21; PWR; BWR). 461202
Environmental radiation monitoring and effects. (C54, C15, C21). [Data] 461344
- biological radiation effects**
Effects on populations of exposure to low levels of ionizing radiation: implications for nuclear energy and medical radiation. The 1979 report of the Advisory Committee on the Biological Effects of Ionizing Radiation (The BEIR Report). (C15). 487248
Public health aspects of radiation. (C52). 491177
Spontaneous cancer mortality rate and its relationship to specific energy consumption. (C15; X and gamma radiation). 491008
body burden
Distribution of fallout plutonium in southern Finns. (C21, C22). 473074
buildings
Socio-economic impact. (C52). [Data] 494393
carcinogenesis
Carcinogenesis. (C15, C21). 469687
cumulative radiation effects
Scenarios for ^{14}C release to the atmosphere by the world nuclear industry and estimated radiological impacts. (C52, C54, C21, B33; Projections for the years 1975 through 2020). 461308
delayed radiation effects
Late effects of radiation: cytogenetic study on peripheral lymphocytes of atomic bomb survivors of Hiroshima. (C15). 461074
dose commitments
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
Food chain transport of ^{210}Pb resulting from uranium milling activities. (C22, C21, C52). 473109
Knolls Atomic Power Laboratory annual environmental monitoring report. Calendar year 1978. (B33, C22, C52, C21). 487151
Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). 470006
Studies and research concerning BNFP: safety and environmental impact of interim AFR storage in the BNFP-FRSS. Final report. (E52, C52, C21; Human population dose commitments from away-from-reactor waste storage at the Fuel Storage Station at BNFP). 477473
dose equivalents
Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
dose limits
Concepts and principles for the limitation and optimization of radiation exposures. (C53). 487624
energy consumption
Energy basis of disasters and the cycles of order and disorder. (C50). 487388
environmental exposure pathway
Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
Annual environmental monitoring report, January-December 1978. (B33, B32, C21; Stanford Linear Accelerator Center). 479727
Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
- Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
Food chain transport of ^{210}Pb resulting from uranium milling activities. (C22, C21, C52). 473109
Stack released plutonium in the environment of a nuclear fuel reprocessing facility. (B33, C22, C21, C52; Savannah River Plant). 487147
Transfer coefficients for terrestrial foodchain: their derivation and limitations. (C22, C21). 487316
Transfer factors for assessing the dose from radionuclides in agricultural products. (C22, C21). 491059
genetic radiation effects
Late effects of radiation: cytogenetic study on peripheral lymphocytes of atomic bomb survivors of Hiroshima. (C15). 461074
genetically significant dose
The radiation exposure from outside in the Federal Republic of Germany through natural radioactive materials in the open and in houses. (C55). 491233
Radiotherapy of benign diseases in West Berlin. (C55, C63). 480195
health hazards
Analyses of human exposures to alpha-emitting radionuclides from nuclear fuel cycles. (C21, B33, C54). 469741
Comparison of gaseous effluent standards for nuclear and fossil fuel power production facilities. (F23, C52, B33). 474364
low dose irradiation
Low-dose radiation. (C15, C55). 490988
maximum permissible exposure
Natural background approach to setting radiation standards. (C15; Proposed standard for exposure of general population to anthropogenic radiation sources is within the standard deviation of the natural background). 479882
mortality
Energy production and human health. (C21). 469735
radiation doses
AIRDOS-EPA: A computerized methodology for estimating environmental concentrations and dose to man from airborne releases of radionuclides. (B33, C21). 487153
Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
Annual environmental monitoring report, January-December 1978. (B33, B32, C21; Stanford Linear Accelerator Center). 479727
Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
Considerations of health benefit-cost analysis for activities involving ionizing radiation exposure and alternatives. Technical report. (C15, C60, C52). 491001
Defects in medical X-ray equipment. (C55). 473302
Effects of man's residence inside building structures on radiation doses from routine releases of radionuclides to the atmosphere. (C21, C15, C52, B33). 469761
Environmental consequences of postulated plutonium releases from the Babcock and Wilcox Plant, Leechburg, Pennsylvania, as a result of severe natural phenomena. (C21, B33, B31, B32). 487301
Environmental monitoring report, 1978: Pinellas Plant. (B33, C52, C21). 487143
Environmental monitoring in the vicinity of the Savannah River Plant. Annual report for 1978. (C21, B33, B32). 487284
Environmental monitoring at Argonne National Laboratory. Annual report for 1978. (B33, C22, B32, C52, C21). [Data] 479691
Environmental surveillance at Hanford for CY-1978. (C21, B33, B32). 487290
Environmental surveillance at Los Alamos. (B33, B31, B32, C52). 479705
Interlaboratory model comparisons of atmospheric concentrations with and without deposition. (B33, C21). 479699
Interpretation of total radiation dosage measurements for populations living near nuclear power stations. (C52). 491158
Look at FDA's Program to protect the American consumer from radiation. (C15). 487279
Nuclear power plants: ecology and health physics. Volume 2. December 1977 - October 1978 (a bibliography with abstracts). Report for December 1977 - October 1978. (B33, C22, C52, C21, B32; 60 abstracts). 487145
Nuclear power plants: ecology and health physics. Volume 1. 1964 - November 1977 (a bibliography with abstracts). Report for 1964 - November 1977. (B33, C22, C52, C21, B32; 212 abstracts). 487139
Population exposure estimates from atmospheric effluents from a model fuel reprocessing plant. (B33, C15, C21). 479683
Potential population dose from radon-222 released by uranium tailings piles. (C52, C54, E52, B16). 473279
Potential radiation dose to man from recycle of metals reclaimed from a decommissioned nuclear power plant. (C21, F11). 469780
Radiation dose estimates due to air particulate emissions from selected phosphate industry operations. (C21, B33; Lung doses to individuals and populations in vicinity of Florida fertilizer plant). 469781
Radiation exposure due to nuclear facilities in West Germany in 1976. (C55). 480192
Radiation exposure pathways of primary importance to nuclear facility decommissioning planners. (B16, C52, C54). 460652
Radioactive effluents from nuclear power stations and nuclear fuel reprocessing plants in the European Community. Discharge data 1972-1976 radiological aspects. (C52, C55). [Data] 491171
Radiological assessment methodology for uranium mills. (B16, C54, E50). 472600
Radiological effects. (C15, C21, B32). 494310

- Radiological impact of thorium mining and milling. (C54, B16, B31). 487631
- Radiological impact of uranium tailings and alternatives for their management. (C54, E50). 494459
- Regional, U.S., and global population dose consequences from reprocessing nuclear fuels at an AFCT/TFCT fuel reprocessing facility. (C15, C21, B33). 479924
- Summary of procedures used to transport and distribute consumer products. (C21, E15; Radioactive materials). 461087
- Transfer factors for assessing the dose from radionuclides in agricultural products. (C22, C21). 491059
- What would happen if high-level nuclear wastes were stored near the surface of the earth. (C54, E50, C15). 466354
- radiation hazards**
- Perspectives of decision-making and estimation of risk in populations exposed to low levels of ionizing radiations. (C15, C21, C50). 469693
- Radiation and man: fact and folklore. (C52, C15). 463374
- Radioactivity in man. (C21, C51). 494343
- radiation monitoring**
- Environmental monitoring report, Sandia Laboratories 1978. (B32, B31, C21). 487134
- radiation protection**
- Considerations of health benefit-cost analysis for activities involving ionizing radiation exposure and alternatives. Technical report. (C15, C60, C52). 491001
- Progress report on the Grand Junction uranium mill tailings remedial action program. (C21, C52, C54; Program to reduce humane exposure from buildings involving the use of mill tailings in their construction). 469742
- Protective action evaluation, Part 1. Effectiveness of sheltering as a protective action against nuclear accidents involving gaseous releases. (C54, B33, C52, C15). 487627
- Radiological emergency response planning: Handbook for Federal Assistance to State and Local Governments. (C15, C52). 482071
- radionuclide kinetics**
- Distribution of fallout plutonium in southern Finns. (C21, C22). 473074
- HUMIDITY:**
- measuring methods**
- Nuclear assay of coal. Volume 4. Moisture determination in coal: survey of electromagnet techniques. Final report. (B11; Determination by capacitance, microwave attenuation, and NMR techniques). 460375
- nuclear magnetic resonance**
- New method measures moisture and true dry mass. (B11). 478811
- radiation transport**
- Theory of gamma-neutron logging. (B31). 490789
- HUMUS:**
- (Material resulting from partial decomposition of plant or animal matter and forming the organic portion of soil.)
- radioactivity**
- Studies on behaviour of transuranic elements in plants. (C22, C21). 473108
- [Data]**
- radionuclide migration**
- Studies on behaviour of transuranic elements in plants. (C22, C21). 473108
- [Data]**
- HUNGARIAN PAKS-1 REACTOR:**
- See PAKS-1 REACTOR
- HUNGARIAN WWR-C REACTOR:**
- See WWR-S-BUDAPEST REACTOR
- HUNGARY:**
- hydrology**
- Environmental isotopes and water chemical studies for groundwater research in Hungary. (B32). [Data] 460882
- HUNTERSTON-B REACTOR:**
- leaks**
- Hunterston: refurbishing nears completion. (E33). 491941
- repair**
- Hunterston: refurbishing nears completion. (E33). 491941
- HUTTONITE:**
- solid solutions**
- Solid solutions in the systems monazite(CePO_4)-huttonite(ThSiO_4), and monazite-Ca sub(0.5)Th sub(0.5)PO₄. (B12). [Data] 475962
- HWGCR OF CZECHOSLOVAKIA:**
- See BOHUNICE A-1 REACTOR
- HWGCR TYPE REACTORS:**
- See also BOHUNICE A-1 REACTOR
- HWLWR TYPE REACTORS:**
- See also GENTILLY REACTOR; JATR REACTOR
- fuel elements**
- The main causes of fuel element failure in water-cooled power reactors. (E31, E32, E34). [Data] 484947
- loss of coolant**
- Probability of failure of a reactor pressure-tube in case of loss of coolant accident. (C52, E34). 487484
- power conditioning systems**
- Neutron flux measuring system for nuclear reactor. (E24). 473818
- Power up control method in a reactor. (E24). 470596
- pressure tubes**
- Probability of failure of a reactor pressure-tube in case of loss of coolant accident. (C52, E34). 487484
- reactor control systems**
- Method and apparatus for controlling power distribution in a reactor. (E24). 470593
- Void coefficient control device in a heavy water-moderated reactor. (E24). 470594
- HYBRID COMPUTERS:**
- comparative evaluations**
- Micro/mini and hybrid computer costs for solving dynamic models. (F50). 474381
- HYBRID REACTORS:**
- (Devices in which controlled self-sustaining fission-fusion processes take place.)
- breeding**
- Preliminary study of the economics of enriching PWR fuel with a fusion hybrid reactor. (A14). 489222
- Three-dimensional lattice calculations for a laser-fusion fissile-enrichment fuel factory. (A14). 462382
- breeding blankets**
- Calculation of reaction rates for a thorium blanket with a central DT neutron source using ENDF/B-IV cross sections. (A33, A14). 460301
- Evaluation of potential blanket concepts for a Demonstration Tokamak Hybrid Reactor. (A14). 474974
- Hybrid reactor blankets for constant energy multiplication and flat power distribution. (E21). 480546
- Nuclear design of the LLL-GA U₃Si blanket. (A14). 471679
- Preliminary conceptual design of the blanket and power conversion system for the Mirror Hybrid Reactor. (A14). 475125
- breeding ratio**
- Analysis of laser fusion breeder-fission converter system economics. (A14). 462276
- Blanket performance of a fusion hybrid based on HTR fuel. (A14). 459866
- Energy multiplication and fissile production of D-D fusion-fission hybrid reactors. (A14). 481216
- Scoping studies of ²³³U breeding fusion fission hybrid. (A14). 475079
- comparative evaluations**
- Economics of fusion driven symbiotic energy systems. (A14). 485797
- coolants**
- Nuclear performance of molten salt fusion-fission symbiotic systems for catalyzed DD and DT reactors. (A14). 475118
- cooling systems**
- Evaluation of steam and boiling-water-cooled DTHR blanket concepts. (A14). 459876
- divertors**
- Design of an advanced bundle divertor for the Demonstration Tokamak Hybrid Reactor. (A14). 475160
- economics**
- Economics of fusion driven symbiotic energy systems. (A14). 485797
- Laser fusion power reactor system (LFPRS). (A14). 464383
- Status and prospects of advanced fissile fuel breeders. (A14, F11, E16). 471675
- forecasting**
- Evaluation of the long-term program plans of the US Division of Controlled Thermonuclear Research. Progress report No. 1. (A14). 464429
- fuel cycle**
- Fuel production characteristics of fusion hybrid reactors. (A14). 483392
- Isotopic processing of the fuel for the Standard Mirror Hybrid Reactor. (A14). 475154
- Resonance self-shielding in the blanket of a hybrid reactor. (A14). 485785
- fuel pellets**
- Analysis of fissionable pellets for inertial confinement fusion. (A14). 475077
- laser implosions**
- Three-dimensional lattice calculations for a laser-fusion fissile-enrichment fuel factory. (A14). 462382
- laser-radiation heating**
- Advances in laser solenoid fusion reactor design. (A14). 475134
- loss of coolant**
- Laser fusion power reactor system (LFPRS). (A14). 464383
- materials testing**
- Materials implications of fusion-fission reactor designs. (A14). 485802
- neutron spectra**
- Comparison of neutron yields in experimental fusion devices. (A14). 459920
- Neutron spectra from materials used in fusion and fusion-fission hybrid reactors. (A14). 467558
- neutron transport theory**
- Application of discrete-ordinates transport methods to analysis of fusion-fission hybrid blankets. (A14). 471701
- nuclear energy**
- Emerging nuclear energy systems concepts. (A14). 492771
- nuclear fuels**
- Preliminary study of the economics of enriching PWR fuel with a fusion hybrid reactor. (A14). 489222
- optimization**
- Optimization of the fission-fusion hybrid concept. (A14). 471716
- performance**
- Electric breeding of fissile materials with low Q, non-mainline fusion drivers. (A14). 464264
- planning**
- 1978 source book for fusion-fission hybrid systems. Executive summary. (A14). 471626
- research programs**
- Hybrid Reactor designs in the United States. (A14). 475157
- reviews**
- Fusion hybrid. (A14, D11). 485662
- Overview of the fusion hybrid concept. (A14). 459979
- 1978 source book for fusion-fission hybrid systems. (A14). 485684
- specifications**
- Conceptual design of a Demonstration Tokamak Hybrid Reactor (DTHR). September 1978. (A14). 485753
- Preliminary consideration of a multipurpose fusion-fission hybrid facility. (A14). 460012

- SOLASE-H laser fusion hybrid. (A14). 462298
synthetic fuels
 Non-electrical uses of thermal energy generated in the production of fissile fuel in fusion-fission reactors: a comparative economic parametric analysis for a hybrid with or without synthetic fuel production. (B31). 472842
thermodynamic cycles
 Preliminary conceptual design of the blanket and power conversion system for the Mirror Hybrid Reactor. (A14). 475125
thorium cycle
 Enhanced fuel production in thorium fusion hybrid blankets utilizing uranium multipliers. (A14). 478146
tokamak devices
 Potential commercial reactor based on a small tokamak hybrid design. (A14). 475131
- HYBRIDIZATION:**
asymmetry
 Radiation induced asymmetries in mitotic recombination: evidence for a directional bias in the formation of asymmetric hybrid DNA in yeast. (C12). [Data] 479792
tracer techniques
 In situ hybridization of cytosol- and chloroplast-ribosomal RNA with isolated nuclei in *Euglena gracilis*. (C45). 491107
- HYBRIDS:**
 See HYBRIDIZATION
- HYDRATES:**
 (For chemical compounds or minerals.)
 See also UNH
crystal structure
 Crystal structure of $\text{CaO} \cdot 4\text{B}_2\text{O}_3 \cdot x\text{H}_2\text{O} = \text{CaB}_6\text{O}_{11}(\text{OH})_x$. (B12). 468893
 Uranyl(VI) compounds. I. (B12). 462727
crystals
 On preliminary evaluation of some energy characteristics of crystallohydrates. (B12). 475976
uranyl sulfates
 Uranyl(VI) compounds. I. (B12). 462727
- HYDRAULIC FRACTURING:**
 (Fracturing of deep rock strata by hydraulic pressure, frequently for the deposition of radioactive wastes.)
pressure gradients
 Fracture pressure gradients from acoustic and density log data: an updated approach. (D22, B31). 461468
- HYDRAULICS:**
 Hydraulic considerations of the fish collection and removal concept. (C52). 473280
shock waves
 Mathematical model and simulation of the hydrodynamic of air-pulsed sieve plate columns. (E11). 476888
- HYDRAZIDES:**
biological effects
 Assessing chemical mutagens: the risk to humans. (C11). 487172
radiolysis
 Quantum and excited-state yields in luminol chemiluminescence by pulse radiolysis. (B14). 484113
 Quantum and excited-state yields in luminol chemiluminescence by pulse radiolysis. (B14). 484092
- HYDRAZINE:**
chemical reaction kinetics
 Some aspects of the evaluation of kinetic data. (B12). 460439
molecular structure
 Combined neutron and X-ray structure analysis of N-phenyl-N'-sulfinyldiazine at 120 K and 290 K. (A13). 483278
radiolysis
 Pulse radiolysis of aqueous hydrazine solutions. The triazene species. (B14; Gamma radiation). [Data] 486771
- HYDRIDE MODERATED REACTORS:**
 See also ACPR REACTOR; FIR-1 REACTOR; KNK-2 REACTOR; TOPAZ REACTOR; TRIGA TYPE REACTORS; TRIGA-1-HANFORD REACTOR; TRIGA-2-LJUBLJANA REACTOR
- HYDRIDES:**
 See also more specific entries as listed in the INIS Thesaurus.
catalysis
 Catalytic activity of the hydrides of alloys based on the group 4 transition metals in transformations of aromatic hydrocarbons. (B12). 476013
 Surface segregation in hydrides of transition metal alloys and their catalytic properties. (B22, B12). 476297
catalysts
 Prospects of the application of transition metal hydrides in catalysis. (B12). 476012
 Transition metal hydrides in catalysis. (B12). 476007
chemical preparation
 Application of self-propagating high-temperature synthesis processes in chemistry and technology of hydrides. (B12). 475943
chemical properties
 Chemical properties of hydrides of some rare earths. (B12). 475991
chemical reaction kinetics
 Rate constants for the reactions of atomic chlorine with Group 4 and Group 5 hydrides. (B12). 472460
chemistry
 The status and immediate problems of the chemistry of transition metal hydrides. (B12). 476022
desorption
 Hydrogen absorption in ternary substituted AB_2 alloys with particular reference to $\text{La}_{1-x}\text{sub } x\text{Y/sub } x\text{Ni}_2$ and $\text{LaNi}_3-x\text{sub } x\text{Al/sub } x$ alloys. (B23). 479498
lattice parameters
 Dependence of atomic volumes of the intermediate phases on concentration in double-component systems and evaluation of the atomic volume of metallic hydrogen. (B22; Nb-Pd, Ta-Pd, V-Pt, V-Si, Nb-Si, Ta-Si, Zr-C, Hf-C, Ta-C, Nb-C, W-C, Mo-C, V-C; Zr-H, Ti-H, Nb-H, V-H, Ni-H). 476314
- laves phases**
 Hydride properties of AB_2 Laves phase compounds. (B22). 472679
magnetic susceptibility
 Magnetic susceptibility of hydrides and deuterides of group 5 transition metals. (B22; Sc, Y, Ti, Zr, Hf, V, Nb, Ta hydrides and deuterides). 476325
nuclear quadrupole resonance
 Quadrupole interactions in hydrides of Ti-Nb alloys. (A13). 485602
spin-lattice relaxation
 Nuclear spin-lattice relaxation and inner motion mechanism in alkali-haloid type crystals with dumbbell-like anions. (A13). 485610
stability
 Bandstructure calculations for metal hydrogen systems. (B23). 472704
thermodynamic properties
 Stability of the lanthanide hydrides. (B12). [Data] 478917
uses
 Physico-chemistry of hydrides as compact sources of hydrogen. (B12). 475916
- HYDRIDIC ACID:**
atom-molecule collisions
 Determination of the van der Waals potential of H-HCl, -HBr and -HI from resolved orbiting resonance maxima in very low energy scattering. (A12). 483215
chemical reaction kinetics
 Thermal rate constants, energy dependence, and isotope effect for halogen-hydrogen halide reactions. (B12). 468808
chemical reactions
 Growth and decay properties of trapped H and D atoms produced by the photolysis of HI, DI, and HBr in 3MP-d₁₄ glass. Evidence for tunneling abstraction of D from C-D bonds by H⁺. (B12). [Data] 465278
molecule-molecule collisions
 Rotational energy transfer in hydrogen halide molecules at supersonic beam velocities. (A12). [Data] 464106
- HYDROBROMIC ACID:**
atom-molecule collisions
 Determination of the van der Waals potential of H-HCl, -HBr and -HI from resolved orbiting resonance maxima in very low energy scattering. (A12). 483215
 Influence of the phase shift on the vibration energy transfer for a collision between an atom and a highly asymmetric diatomic molecule. (A12). [Data] 464008
 Production of electronically-excited species by photoselection of pathways (POP). Third quarterly report, August 1, 1978 - October 31, 1978. (B12; F + HBr). 460535
catalysis
 Infrared laser induced organic reactions. 2. Laser vs. thermal inducement of unimolecular and hydrogen bromide catalyzed bimolecular dehydration of alcohols. (B12). [Data] 472421
chemical reactions
 Growth and decay properties of trapped H and D atoms produced by the photolysis of HI, DI, and HBr in 3MP-d₁₄ glass. Evidence for tunneling abstraction of D from C-D bonds by H⁺. (B12). [Data] 465278
molecular ions
 Application to ab initio calculations to nuclear internal conversion: repulsion energies of highly charged HBr ions. (A12). 488835
molecule-molecule collisions
 Quasiclassical trajectory study of the four-center reactions: $\text{HBr} + \text{Cl}_2$ and $\text{HBr} + \text{BrCl}$. (A12). [Data] 463955
 Rotational energy transfer in hydrogen halide molecules at supersonic beam velocities. (A12). [Data] 464106
rotational states
 Vibrational energy transfer in selectively excited diatomic molecules. (A12; Relaxation rates, self-relaxation, upper limits). 477725
vibrational states
 Vibrational energy transfer in selectively excited diatomic molecules. (A12; Relaxation rates, self-relaxation, upper limits). 477725
- HYDROCARBONS:**
 See also more specific entries as listed in the INIS Thesaurus.
 Hydrocarbon conversion with cracking catalyst having co-combustion promoters lanthanum and iron. (B12; Patent). 478925
biological effects
 Vulnerability of female germ cells in developing mice and monkeys to tritium, gamma rays, and polycyclic aromatic hydrocarbons. (C11; X radiation). 460962
carcinogenesis
 Tumorigenic action of beta, proton, alpha, and electron radiation on the rat skin. Progress report, August 1, 1977 - January 31, 1979. (C14). 461031
chemical analysis
 Analytical procedure for determining C_2 to C_6 hydrocarbons in ambient air. (C52). 480098
chemical reactions
 Nuclear methods in chemical kinetics. Technical progress report, April 1, 1978 - March 31, 1979. (B12). 460449
configuration mixing
 Interaction of hydrogen and hydrocarbons with transition metals. Neutron diffraction study of di- μ -hydro-decacarbonyltriosmium, $(\mu\text{-H})_2\text{Os}_3(\text{CO})_{10}$, containing a four-center, four-electron H_2Os_2 bond. (B12). 472418
 Interaction of hydrogen and hydrocarbons with transition metals. Neutron diffraction study of the crystal and molecular structure of $(\mu\text{-H})_2\text{Os}_3(\text{CO})_{10}(\mu\text{-CH}_3)$. (B12). 465395

- density
Radiometric analyzer. (D22, B11; Patent). 466467
- ecological concentration
Hydrocarbon studies in Puget Sound and off the Washington coast.
Progress report, March 1977 - February 1978. (C52, B32). [Data] 487435
- Hydrocarbon studies in Puget Sound and off the Washington coast.
Progress report, March 1978 - February 1979. (C52, B32). [Data] 487436
- electron-molecule collisions
Doppler profile measurements of Balmer- α by electron impact on simple molecules. (B14). 472524
- environment
Hydrocarbon studies in Puget Sound and off the Washington coast.
Progress report, March 1978 - February 1979. (C52, B32). [Data] 487436
- Hydrocarbon studies in Puget Sound and off the Washington coast.
Progress report, March 1977 - February 1978. (C52, B32). [Data] 487435
- geochemistry
Isotope-geochemical exploration for hydrocarbons. (B31). 469484
- glow discharges
A new long-lived carbon stripper foil. (E16). 470425
- meetings
Second symposium on macrocyclic compounds. (B12). 472434
- neutrons
Neutron quasi-elastic scattering of *n*-nonadecane. (A31). 483712
- pyrolysis
Pyrolysis and mass transfer of hydrocarbon during coating-process of fuel particles in a conical fluidized bed. (B24, E33). 469402
- quantitative chemical analysis
Rapid spectrofluorometric method for the analysis of polycyclic aromatic hydrocarbons in animal tissue. (C52). 469941
- radiolysis
Calculation of scavenging yield from the initial distribution of electrons in radiolysis of hydrocarbon solutions. (B14). 490475
- Contribution to radiolysis study of liquid hydrocarbons. (B14). 484107
- retention
Synthetic Fuels Program. (C52). [Data] 480063
- scavenging
Theoretical expression for Warman et al.'s parameter α in electron scavenging. (B13). 479116
- structural chemical analysis
Equilibrium geometries and relative energies of the lowest singlet and triplet states of *o*-, *m*-, and *p*-benzynes. (B12). 472454
- toxicity
Synthetic Fuels Program. (C52). [Data] 480063
- HYDROCEPHALUS:**
See MALFORMATIONS
- HYDROCHLORIC ACID:**
atom-molecule collisions
Determination of the van der Waals potential of H-HCl, -HBr and -HI from resolved orbiting resonance maxima in very low energy scattering. (A12). 483215
- Measurements of energy loss spectra in ion-pair formation reactions for the K + HCl system. (A12). 459760
- Measurements of energy loss spectra in the ion-pair formation reaction for the K + HCl system. (A12). 483207
- chemical reaction kinetics
Effect of protonation of nitrogen-containing organic molecules on the reactivity toward positronium. (B13). [Data] 472484
- chemical reaction yield
Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- chemical reactions
Infrared photochemistry of halogenated ethylenes. (B12, B11). 472458
- Symmetric atom exchange reaction Cl + HCl. An arduous task for theory and experiment. (B12). 460482
- electron-molecule collisions
Translational energies and emission cross sections of the excited hydrogen atom (HCl, DCl, H₂O, D₂O). (A12). 471378
- molecule-molecule collisions
Rotational energy transfer in hydrogen halide molecules at supersonic beam velocities. (A12). [Data] 464106
- rotational states
Vibrational energy transfer in selectively excited diatomic molecules. (A12; Relaxation rates, self-relaxation, upper limits). 477725
- solvent extraction
Influence of salting-out agents on extraction of hydrochloric acid by tri-*n*-butyl phosphate. (B16). 486830
- vibrational states
Semiclassical statistical mechanics. (A11, A12). 485369
- Vibrational energy transfer in selectively excited diatomic molecules. (A12; Relaxation rates, self-relaxation, upper limits). 477725
- HYDROCORTISONE:**
biological effects
Induction of interferon by levamisole in mice. (C14; X radiation). 472966
- quantity ratio
A fully automated solid-phase iodine-125 cortisol radioimmunoassay. (C62). 491311
- radioimmunoassay
Adrenal status assessed by direct radioimmunoassay of cortisol in whole saliva or parotid saliva. (C62; Tritium tracer techniques). 470178
- Direct solid-phase ¹²⁵I radioimmunoassay of serum cortisol. (C62). 470077
- Estimation of plasma cortisol by radiocompetition or radioimmunoassay. Use of commercial kits. (C62). 494550
- One-tube micromethod for radioimmunoassay of plasma cortisol. (C62; Tritium tracer techniques). 470091
- The radioimmunoassay of biologically active compounds in parotid fluid and plasma. (C45). [Data] 487386
- Radioimmunoassay for tetrahydrocortisol. (C62; ³H tracer techniques). [Data] 487718
- Simple radioimmunoassay of cortisol in diluted samples of human plasma. (C62; Tritium tracer technique). 470081
- HYDROCYANIC ACID:**
chemical preparation
Production of carrier-free H¹⁴CN. (B13; Patent). 468904
- cosmochemistry
Metastable isomers: A new class of interstellar molecules. (A15). 489502
- Observations of interstellar HNC, DNC, and HN¹³C: Temperature effects on deuterium fractionation. (A15). 489634
- decomposition
Heavy atom kinetic isotope effects in HCN elimination from some tricyanides in methanol. (B12). 468737
- dissociation
Formation of CN(B² Σ) by the electron impact dissociation of HCN. Measurements near threshold. (A12). 483206
- electron-molecule collisions
Formation of CN(B² Σ) by the electron impact dissociation of HCN. Measurements near threshold. (A12). 483206
- ion-atom collisions
Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). [Data] 464012
- labelling
Production of carrier-free H¹⁴CN. (B13; Patent). 468904
- neutron diffraction
A neutron scattering study of DCN. (A31). 490004
- HYDRODYNAMIC MODEL:**
absolute zero temperature
The hydrodynamical approximations in the cold nuclear matter. (A33). 460305
- hadron-hadron interactions
Hydrodynamical description of the missing-mass clusters. (A21). 486054
- proton-proton interactions
Proton-proton interactions at 28.5 GeV/c as viewed from the statistical-hydrodynamical theory. (A21; Momentum distributions, scaling, limiting temperature, correlation function). 468054
- HYDRODYNAMICS:**
See also MAGNETOHYDRODYNAMICS
- boundary layers
Double boundary layers on an electrically conducting plane surface in a rotating environment. (A13). [Data] 462173
- couette flow
Fokker-Planck description of a Navier-Stokes fluid with instability. (A11). 492409
- fluid flow
Double boundary layers on an electrically conducting plane surface in a rotating environment. (A13). [Data] 462173
- mathematical models
SEDONE: a computer code for simulating tidal-transient, one-dimensional hydrodynamic conditions and three-layer, variable-size sediment concentrations in controlled rivers and estuaries. (B32, C52; Code has application in determining hydrodynamic, thermal, chemical, radiological, and biological impacts of thermal power plants). 469539
- variational methods
Rayleigh-Benard instability in nonreactive binary fluids. II. Results. (A13). 488985
- Rayleigh-Benard instability in nonreactive binary fluids. I. Theory. (A13). 488984
- HYDROELECTRIC POWER PLANTS:**
feasibility studies
Preliminary report: Qattara Project material properties. (E14). 491539
- rock mechanics
Critical assessment of selected in situ tests for rock mass deformability and stress measurements. (B31). 465753
- site selection
Critical assessment of selected in situ tests for rock mass deformability and stress measurements. (B31). 465753
- HYDROFLUORIC ACID:**
atom-molecule collisions
Experimental and computational study of HF+Xe scattering. (A12). 488761
- Theoretical analysis of inelastic molecular collisions: applications to atom-diatom systems relevant to laser operation. (A12; Cross sections, relaxation rates). 485440
- The use of rotationally and orbitally adiabatic basis functions to calculate rotational excitation cross sections for atom-molecule collisions. (A12). 483202
- Vibrational relaxation in He-CO and He-HF: a unitary distorted-wave approach. (A12). 459729
- chemical radiation effects
Laser-collision induced chemical reactions: Collinear exchange reaction model on two electronic surfaces. (B11, B12). 478838
- chemical reaction yield
Comparison of quasi-classical, transition state theory, and quantum calculations of rate constants and activation energies for the collinear reaction X + F₂ \rightarrow XF + F (X = Mu, H, D, T). (B13). 460547
- Emulsifier-free emulsion polymerization of tetrafluoroethylene by radiation. III. Simultaneous formation of hydrofluoric acid. (B14; γ radiation). [Data] 479293

- Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- energy transfer**
- Microscopic V-E energy transfer rates in the HF/NF system. (A12). 459751
- ion-molecule collisions**
- Reactions of ions with atomic and molecular free radicals. Progress report, May 1, 1978-April 30, 1979. (A12; Summaries of research activities at Univ. of Minnesota). 477744
- molecule-molecule collisions**
- Rotational energy transfer in hydrogen halide molecules at supersonic beam velocities. (A12). [Data] 464106
- Vibrational relaxation HF ($v=3,4$) by H_2 , D_2 , and CO_2 . (A12). 467191
- separation processes**
- Method to separate hydrogen fluoride from an uranium hexafluoride-hydrogen fluoride mixture. (B11). 472377
- vibrational states**
- Vibrational relaxation HF ($v=3,4$) by H_2 , D_2 , and CO_2 . (A12). 467191
- HYDROGEN:**
- Ab initio LCAO-MO cluster-type calculation of the self-consistent electronic screening charge density around a single hydrogen impurity in a nickel crystal. (B22). 465652
- Effect of hydrogen on fatigue crack propagation in vanadium. (B22). 469135
- Effect of hydrogen on fatigue crack propagation in vanadium. (B23). 469358
- Factors controlling hydrogen assisted subcritical crack growth in Zr-2.5Nb alloys. (B22, E23). 472684
- Fracture of Fe-Cr-Mn austenitic steel. (B22). 481800
- Mechanisms of hydrogen induced delayed cracking in hydride forming materials. (B22, E22). 465586
- Pneumatic hydrogen pellet injection system for the ISX tokamak. (A14). 464412
- Study on the rationalization of intermediate post-weld heat treatment. (B21, E22). 469073
- Zone refining of rare earth metals. II. (B21). 486845
- absorption**
- Effect of the image charge in an autoconsistent model of hydrogen absorption. (A12). 471310
- Hydrogen absorption in the niobium-vanadium system. (B22, B21). 472667
- Hydrogen absorption in various zirconium- and hafnium-based intermetallic compounds. (B22). 484191
- absorption spectra**
- Fundamental absorption spectra of solid hydrogen. (A13). [Data] 477891
- acoustic nmr**
- Observation of the nuclear acoustic resonance of hydrogen in NbH/sub 0.026/. (B23). 479503
- activation analysis**
- Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- adiabatic processes**
- Ab initio SCF polarisabilities and electron-molecule adiabatic polarisation potentials. (A12). 488920
- aluminium**
- Spherical solid model for muon and hydrogen in metals. (A13). 481129
- aluminium hydroxides**
- The hydrogen positions in bayerite, $Al(OH)_3$. (B23, A13). 472709
- antiparticles**
- Hydrogenium and hydrodenium-ion. (A12). 474555
- atom-atom collisions**
- Angular momentum decoupling approximations and factorization in diatom-diatom scattering. (A12). 485449
- Calculations of $He(2 \text{ sup } 1,3/S)+H$ ionization cross sections using ab initio potentials and widths derived from Siegert eigenvalues. (A12). 488837
- Collision-induced atomic dipole moments. (A12). 463945
- Contribution of orbiting to differential cross sections. (A12). 467170
- Effect of excitation transfer in the ionization collisions between two excited hydrogen atoms. (A12). 488903
- Energy dependence of the ionization of highly excited atoms by collisions with excited atoms. (A12). 464086
- Estimating formulas for calculation of hyperfine structure line shifts and interatomic potentials of alkaline atoms and hydrogen in buffer gases. (A12). 488757
- History of H_2 kinetics. (A12). 467329
- Ionization of 0.5 MeV H by Ar and a comparison with the H^+/Ar system. (A12). 467193
- Penning ionisation of atomic hydrogen by metastable neon atoms. (A12). 483199
- Resonances in the scattering of atoms and molecules. (A12). 488919
- Rydberg-atom-Rydberg-atom ionisation cross sections. (A12). 481043
- Semiquantal treatment of excited-atom-excited-atom collisions. (A12). 488801
- atom-molecule collisions**
- The absolute rate constants of reaction of hydrogen atoms with several olefins. (B14). 465461
- Collision-induced line shapes calculated with a hard sphere model. (A12). 485534
- Detailed dynamics of collinear $F+H_2$ trajectories. (A12). [Data] 464002
- Determination of the van der Waals potential of H-HCl, -HBr and -HI from resolved orbiting resonance maxima in very low energy scattering. (A12). 483215
- Excitation of Balmer alpha and Lyman alpha emissions in collisions of 1.87- to 24.6-keV hydrogen atoms with N_2 and O_2 . (A12). 488900
- Monte Carlo quasiclassical trajectory study of the collision-induced dissociation of hydrogen by neon. (A12). 485481
- Monte Carlo trajectory study of Ar + H_2 collisions: master-equation simulation of a 4500 K shock wave experiment with thermal rotation. (A12). 483224
- On the interweaving of partial cross sections of different parity. (A12). 483156
- Quantum mechanical study of $F(^2P_{sub}(1/2)) + H_2(j=0)$ quenching: the role of virtual ortho-para mixing. (A12). 488929
- Quantum mechanics of electronic-rotational energy transfer in $F(^2P)+H_2$ collisions. (A12). 467346
- Quantum resonance structure in the three-dimensional $F+H_2$ reaction. (A12). 483211
- Quantum theory of exchange reactions: Use of nonorthogonal bases and coordinates. (A12). 485531
- Quasiclassical cross sections for the $H+H_2(0,0) \rightarrow H+H_2$ reaction: Comparison of the Siegbahn-Liu-Truhlar-Horowitz and the Porter-Karplus potential surfaces. (A12). 485491
- Resonances in the scattering of atoms and molecules. (A12). 488919
- Rotational energy sudden approximation in vibrationally inelastic collisions. (A12). [Data] 464082
- Scattering experiments with hydrogen atoms. II. A system of astrophysical interest: $H+CO$. (A12). 488781
- Scattering of thermal-energy hydrogen-atom beams by atoms and molecules. (A12). 467216
- Sudden rotation calculations of the $H+H_2(\gamma=1, j=0)$ reaction. (B12). 488772
- Temperature effect on the collision-induced emission of $S(^1S)$ with He, Ar, N_2 , H_2 , Kr, and Xe. (A12). 485408
- Threshold behavior of vibrationally inelastic cross sections. (A12). 467246
- Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092
- Uni- and bimodal product energy distributions for the reactions $H+Cl_2(\gamma=1)$ and $D+Cl_2(\gamma=1)$. (A12, B12). 483152
- A vibrational bias mechanism for diatomic dissociation: induction times and steady rates for O_2 , H_2 and D_2 dilute in Ar. (A12). 483187
- atomic beams**
- Cryogenic source "cryopol 2" of polarized hydrogen and deuterium atoms. (E16, A12). 491570
- atoms**
- Effect of the proton mass on the spectrum of the hydrogen atom in a strong magnetic field. (A12). 474638
- Relativistic corrections to the energy levels of hydrogen atoms in a strong magnetic field. (A12). 488922
- backscattering**
- Model for hydrogen isotope backscattering, trapping and depth profiles in C and a-Si. (A14). 471625
- binding energy**
- Atomic hydrogen in a uniform magnetic field: Low-lying energy levels for fields below 10^9 G. (A12). 477824
- bose-einstein condensation**
- Properties of condensed spin-aligned atomic hydrogen from variational calculations. (A11, A13, A17). 474477
- bound state**
- Change of binding type and dissociation of molecules in a strong magnetic field. (A12). 464036
- breakdown**
- Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
- catalysis**
- The catalytic reaction between adsorbed oxygen and hydrogen on Rh(111). (A13). 459843
- charge exchange**
- Charge exchange between $H(2s)$ and energetic projectiles. (A12). 474567
- Charge transfer between $H(1s)$ and O^+ . (A12, A14). [Data] 474651
- Charge transfer processes involving highly excited hydrogen atom. (A12). [Data] 474667
- Hydrogen-atom charge exchange on multicharged ions. (A12). 483160
- charged-particle transport**
- Predicted electron-transport coefficients at high E/N values. I. Hydrogen. (A32). 490016
- chemical analysis**
- Electron- and photon-stimulated desorption as hydrogen probes. (B12, B11). 460483
- chemical bonds**
- Theoretical interpretation of the infrared spectra of the hydrogen bond. (A12). 464111
- chemical preparation**
- Thermal decomposition of magnesium iodate. (B12). 490385
- chemical radiation effects**
- Irradiation effects on the reaction of mixture of carbon monoxide and hydrogen, 1. (B14). [Data] 481737
- Production of carrier-free $H^{14}CN$. (B13; Patent). 468904
- chemical reaction kinetics**
- Accuracy of trajectory calculations and transition state theory for thermal rate constants of atom transfer reactions. (B12). 460537
- Accuracy of tunneling corrections to transition state theory for thermal rate constants of atom transfer reactions. (B13). 460550
- Evaluation of reaction kinetics for gas-powder systems. (B12, B15). [Data] 493717
- Kinetic behaviour of trapped hydrogen atoms in sulfuric acid glasses γ -irradiated at 63.90 K. (B14). [Data] 465478
- Measurement of high temperature rate constants using a discharge

- flow shock tube. (B12). 460469
- Simple model for hydrogen atom reactions in neopentane-cyclohexane mixtures irradiated at 4.2 K. (B14). 493809
- chemical reaction yield**
- Evaluation and compilation of chemical kinetic data. (B12). 462698
- Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
- Hydrolysis of octahydrotriborate in cold acidic methanol-water solutions. Preparation of $B_3H_7OH_2$ and B_3H_7OH . (B12). 465329
- Non-Arrhenius behavior in bimolecular reactions of the OH radical. (B14, B12). 462797
- Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- Survey of reactions involving H , H^+ , and Cl atoms. (B13). 460579
- chemical reactions**
- AB INITIO calculation of approximative potential surface of the shortest way of the $BH + H_2 \rightarrow BH_2$ reaction. (B12). 490331
- Comparison of quasi-classical, transition state theory, and quantum calculations of rate constants and activation energies for the collinear reaction $X + F_2 \rightarrow XF + F$ ($X = Mu, H, D, T$). (B13). 460547
- Equilibrium composition of the gaseous phase in the B-P-Cl-Br-H system. (B12). 476025
- Evaluation and compilation of chemical kinetic data. (B12). 462698
- Exact quantum mechanical transition state theory. I. An overview. (B12). 460485
- Franck-Condon factors in studies of dynamics of chemical reactions. V. Simple construction of quadiabatic potential energy surfaces and numerical evaluation of Franck-Condon integrals. (B12). [Data] 465420
- Franck-Condon theory of chemical dynamics. VI. Angular distributions of reaction products. (B12; $H + H_2 \rightarrow H_2 + H$, $H_2 + F \rightarrow HF + H$, $H + Cl_2 \rightarrow HCl + Cl$). 486676
- History of H_2 kinetics. (A12). 467329
- Hydrogen-oxygen reaction on lanthanide oxides. VII. The hydrogen-oxygen reaction on samarium oxide. (B12). 462737
- Intermolecular energy transfer effects in thermal unimolecular reactions. (B12). 460534
- Irradiation temperature effects on hydrogen atom reactions upon radiolysis and photolysis at 4.2 and 77 K of neopentane containing various additives as studied by electron spin resonance. (B14, B12). 493808
- Non-Arrhenius behavior in bimolecular reactions of the OH radical. (B14, B12). 462797
- Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- Redistribution of electron density in the $BH + H_2 \rightarrow$ reaction according to AB INITIO calculation data. (B12). 490333
- Selective formation of trans-2-butene-1,4- d_2 and (E)-2-methyl-2-butene-1,4- d_2 in deuteration of 1,3-butadiene derivatives over thorium oxide catalyst. (B12). [Data] 478954
- Survey of reactions involving H , H^+ , and Cl atoms. (B13). 460579
- Toward a unified master-equation theory of thermal decomposition reactions. Analytic solution for diatomic dissociation. (B12). 460545
- Tunnelling in collinear light-heavy-heavy reactions. (B12). 472435
- chemical shift**
- Selected topics on the electronic structure of small molecules. (A12). [Data] 485536
- chemisorption**
- Heats of chemisorption of O_2 , H_2 , CO, CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- Theoretical studies of nickel clusters and chemisorption of hydrogen. (B22). 476340
- Vibrational excitation of hydrogenic modes on tungsten by angle dependent electron-energy-loss spectroscopy. (B12). 468889
- collisions**
- Modulated molecular beam study of the mechanism of the $H_2 - D_2$ exchange reaction on Pt(111) and Pt(332) crystal surfaces. (A12). [Data] 464077
- Reactive and nonreactive scattering of modulated molecular beams from well characterized platinum single crystal surfaces. (A12; Mechanism, rainbow scattering, angular distribution). 477742
- compton effect**
- High-accuracy Compton profile of molecular hydrogen from explicitly correlated Gaussian wave function. (A12). 488840
- configuration mixing**
- Interaction of hydrogen and hydrocarbons with transition metals. Neutron diffraction study of di- μ -hydrido-decacarbonylnitrosium, $(\mu-H)_2Os_2(CO)_{10}$, containing a four-center, four-electron H_2Os_2 bond. (B12). 472418
- Interaction of hydrogen and hydrocarbons with transition metals. Neutron diffraction study of the crystal and molecular structure of $(\mu-H)_2Os_2(CO)_{10}(\mu-CH_3)$. (B12). 465395
- copper**
- Spherical solid model for muon and hydrogen in metals. (A13). 481129
- corrosion**
- Corrosion of valve metals. (B15). 468991
- cosmochemistry**
- Atomic to molecular hydrogen transition in interstellar clouds. (A15). [Data] 464570
- Gas distribution in the central region of the galaxy. I. Atomic hydrogen. (A15). 475214
- HI-deficient spiral galaxies in the Coma cluster and Abell 1367. (A15). 475418
- Hydrogen densities in molecular clouds inferred from CO observations. (A15). 467914
- Molecular hydrogen in globular clusters: a search for carbon monoxide. (A15). 475401
- coulomb field**
- Dynamical symmetries in a spherical geometry. (A11). 462084
- critical pressure**
- Metallic hydrogen research. (B24, B22). 465702
- cross sections**
- A calculation of neutron cross-sections for the elements hydrogen, carbon, nitrogen and oxygen in the energy range 20 - 50 MeV. (A31, A33). [Data] 472098
- crystal-phase transformations**
- X-ray study of the crystallographic transition in hydrogen below 1.5 K. (B24). 481872
- d states**
- The 3d-triplet complex of molecular hydrogen: the measured Zeeman effect and the calculated eigenvectors and g-factors. (A12). [Data] 481030
- de-excitation**
- Collisional de-excitation of 5-26 keV metastable hydrogen atoms. (A12). [Data] 474623
- desorption**
- Electron- and photon-stimulated desorption as hydrogen probes. (B12, B11). 460483
- deuterium**
- Structure of solid H_2D_2 mixtures. (A13). 489012
- differential cross sections**
- Differential cross sections for the near-resonant charge-transfer process $H^+ + CS \rightarrow H(2s) + Cs^+$ at low energy. (A12). [Data] 471382
- diffraction**
- Quadrupole interaction in the scattering of H_2 from the surface of LiF: Rotational transitions. (A12). 485460
- diffusion**
- Behaviour of hydrogen in liquid sodium. (B12). [Data] 490423
- The Debye-Waller factor and the diffusion process for hydrogen in Nb, Ta, and V single crystals investigated by neutron spectroscopy. (A13). 467429
- Diffusion of hydrogen and its isotopes in BCC metals. (B22). 472634
- Dynamics of hydrogen in Nb, Ta, V and Pd investigated by neutron spectroscopy. (A13). 467467
- Electromigration of hydrogen and deuterium in vanadium, niobium and tantalum. (B22). 465618
- Fusion reactor research. (A14). 467494
- Hydrogen absorption in ternary substituted AB_3 alloys with particular reference to $La_{1-x}/sub x/Y/sub x/Ni_3$ and $LaNi_5 - /sub x/Al/sub x/$ alloys. (B23). 479498
- Hydrogen diffusion and trapping in bcc and fcc metals. (B22). 486915
- Hydrogen diffusion in β - $LaNi_5$ hydride. (B22). [Data] 481825
- Hydrogen diffusion and electronic structure parameters in tantalum hydrides determined by pulsed NMR measurements. (B23; 77°K-470°K). 460777
- Hydrogen diffusion in metals measured by neutron scattering and absorption. (B22). 469333
- Hydrogen in b.c.c. metals. (B23). 460762
- Hydrogen permeation resistant phosphate coatings. (B22, A14, E35). 493995
- Hydrogen permeation resistant phosphate coatings. (B22). 493994
- Hydrogen transport and solubility in non-metallic solids. (A14). 475002
- Imaging atom-probe and field-ion investigations of hydrogen in metals. (A14). 467661
- Magnetic aftereffect of hydrogen and deuterium in Co_5Sm . (A13). 477886
- Mechanisms for hydrogen diffusion in TiO_2 . (B24). 486978
- Neutron spectroscopy of fast hydrogen diffusion in BCC transition metals. (B23). 486969
- Performance characteristics of the HYCSOS chemical heat pump system based on rare earth transition metal AB_3 hydrides. (B23). 481868
- Permeation of hydrogen isotopes in nickel. (B12, B22). 465283
- Sublattice magnetization of $ErFe_2 - H$. (B22, B12). 479440
- dipole moments**
- Collision-induced atomic dipole moments. (A12). 463945
- dissociation**
- ab initio calculation of the rate of vibrational relaxation and thermal dissociation of hydrogen by helium at high temperatures. (B12). 460455
- Atomic to molecular hydrogen transition in interstellar clouds. (A15). [Data] 464570
- Monte Carlo trajectory study of $Ar + H_2$: Vibrational selectivity of dissociative collisions at 4500°K and the characteristics of dissociation under equilibrium conditions. (B12). [Data] 465286
- Production of excited hydrogen atoms by photodissociation of the H_2 molecule near threshold. (A12). 492539
- Resonant dissociative photoionization of H_2 . (A12). 477767
- Upper limit of the cross section for photodissociation of H_2 into excited atoms in the range 620-350 Å. (A12). 492531
- A vibrational bias mechanism for diatomic dissociation: induction times and steady rates for O_2 , H_2 and D_2 dilute in Ar. (A12). 483187
- distillation**
- Hydrogen isotope distillation for fusion power reactors. (A14, D13). 471609
- eigenvalues**
- Dynamical symmetries in a spherical geometry. (A11). 462084
- Hydrogen atom within spherical boxes with penetrable walls. (A12). 488860

- electric fields**
 A hydrogen atom in a uniform electric field. (A12). 488786
 Ionisation of highly excited atoms by electric fields. (A12). 462132
- electrical properties**
 Optical and electrical properties of evaporated amorphous silicon with hydrogen. (B24). 468989
- electron attachment**
 Interference in dissociative attachment cross sections of H_2 around 14 eV. (A12). [Data] 471408
- electron capture**
 Formation of highly excited hydrogen atoms by electron capture in proton collisions. (A12). [Data] 471355
- electron collisions**
 Excitation of atomic hydrogen to the $2S$ /sub $1/2$ / state by electron impact. (A12; Differential cross sections at 0 to 180° , 10.20 to 12.50 eV). [Data] 477833
- electron correlation**
 Electron correlation in molecular many-electron systems by diagrammatic many-body perturbation theory: Correlation energies and dipole polarizabilities of the hydrogen molecule. (A12). [Data] 464004
- electron loss**
 Collisional de-excitation of 5-26 keV metastable hydrogen atoms. (A12). [Data] 474623
- electron spectrometers**
 (e,2e) experiments on atomic hydrogen: comparison with the distorted and plane wave impulse approximations. (A12). 459774
- electron spin resonance**
 Anisotropic hyperfine interactions of rare-gas nuclei near trapped hydrogen atoms. (A12). [Data] 464048
- electron transfer**
 Electron transfer processes from atomic hydrogen by collision with bare nuclear ions. (A12). 464076
- electron-atom collisions**
 (e, 2e) collisions. (A12). 488926
 (e,2e) experiments on atomic hydrogen: comparison with the distorted and plane wave impulse approximations. (A12). 459774
 Application of a variational principle for the scattering length for the target wave function imprecisely known. (A12). 477702
 Coherent-state multipole moments in electron-hydrogen impact excitation. (A12). 485395
 Comments on the eikonal-Born series approach to electron-atom scattering. (A12). [Data] 462152
 Electron scattering from hydrogen: Collisions in which the total spin quantum numbers change. (A12). 474599
 Electron-hydrogen-atom collisions in the presence of a laser field: Born-Oppenheimer approximation. (A12). 474562
 High-energy higher-order Born approximations: Theoretical development. (A12). 477844
 An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
 Ionization of hydrogen atoms by electron impact. (A12). 488780
 Left-cut contribution to the dispersion relation for the elastic electron-atomic-hydrogen scattering amplitude. (A12). 474547
 Off-diagonal potentials in the distorted-wave expansion for electron-atom scattering. (A12). 481052
 Spin-exchange effects in low-energy scattering of polarized electrons by polarized hydrogen atoms. (A12). 463928
 Systematic trends in the inelastic cross sections and form factors for $nI \rightarrow n'I'$ direct collisional transitions. (A12). 481020
 Triple differential cross sections for the ionisation of atomic hydrogen by electron impact from 100 to 250 eV. (A12). 474658
 Triple differential cross section for electron impact ionisation of the hydrogen atom. (A12). [Data] 462129
- electron-molecule collisions**
 Doppler profile measurements of Balmer- α by electron impact on simple molecules. (B14). 472524
 Doppler profile measurements of Balmer- α radiation by electron impact on H_2 , D_2 , CH_4 and other simple hydrocarbons. (B14). 468949
 Elastic scattering of electrons by a hydrogen molecule at intermediate energies using optical eikonal theory. (A12). 483157
 Experimental determination of absolute partial cross-sections of H_2 ionization by electron impact. (A12). 471339
 Experiments on multiphoton free-free transitions. (A12). 488927
 High-Rydberg atomic fragments from electron-impact dissociation of molecules. (A12). 477817
 Impulse approximation to pion-helium and electron-hydrogen molecule collisions. (A33, A12; Scattering amplitudes, 85 and 206 MeV). 468369
 L^2 -basis-set theory of electron-molecule scattering with vibrational and rotational coupling. (A12). 467227
 Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
 A Monte-Carlo simulation of the behaviour of electron swarms in hydrogen using an anisotropic scattering model. (A12). 474561
 Polarisation of radiation from H_2 excited by electron impact: Lyman and Werner emissions and Lyman- α . (A12). [Data] 462133
 R-matrix calculations for electron-molecule scattering. (A12). 483146
 Stieltjes-moment-theory technique for calculating resonance widths. (A12). 463996
 Time-of-flight study of $H(2S)$ and $D(2S)$ produced by electron impact on H_2 , D_2 , and HD : Evidence for predissociation. (A12). 488892
 Vibrational- and rotational-state dependence of dissociative attachment in e- H_2 collisions. (A12). 467335
- electronic structure**
 Atomic energy-level and Grottrian diagrams. (A12). 483138
 Effect of the image charge in an autoconsistent model of hydrogen absorption. (A12). 471310
 Excited atomic and molecular states in strong electromagnetic fields. (A12). 483139
 Gaussian basis sets for molecular calculations. (A12; Electronic wave-function expansion). 474576
- embrittlement**
 Investigations on hydrogen brittleness of quenched and drawn steels during electrochemical coating. (B22). 469262
- emission spectra**
 Observations of interstellar molecular hydrogen emission. (A15). 460026
 Profiles of $HI(L\alpha)$, $MgII$ (h and k), $CaII$ (H and K) lines of an active filament at the limb, with the LPSP instrument aboard the OSO-8 satellite. (A15). 467957
 Simultaneous measurements of $Ca^+ K$, $Ca^+ H$, $H\alpha$, $H\beta$, and $He D_3$ emission in prominences. (A15). 467944
- energy levels**
 Complex coordinates and the Stark effect. (A12; Reviews). 467177
 Energy levels in Debye field. (A12). 467159
 Excitation of atomic hydrogen to the $2S$ /sub $1/2$ / state by electron impact. (A12; Differential cross sections at 0 to 180° , 10.20 to 12.50 eV). [Data] 477833
 Finite nucleus model for the Fermi contact interaction. (A12, A21; Schroedinger equation, Coulomb plus delta function potential). [Data] 477754
 Hydrogen atoms in the presence of a homogeneous magnetic field: a variational approach. (A12). [Data] 459717
 Interactions of atoms with solid surfaces: nonadiabatic mechanism for the production of excited state hydrogen and helium atoms at a metal surface. (A12, B22; Surface-interaction potential model, time dependent Schroedinger equation, semiclassical approximation). 467176
 Photoionization of atoms. Progress report, 1 April 1978 - 30 March 1979. (A12; Summaries of research activities at the Univ. Nebraska). [Data] 467298
 Quantum chemistry by random walk: H_4 square. (A12). [Data] 477698
 Stationarity of resonant pole trajectories in complex scaling. (A12; Reciprocity, virial theorem, Stark broadening, perturbation theory). 467175
 Theoretical studies of highly ionized species. Progress report, March 1, 1978 - February 28, 1979. (A12; Summaries of research activities at Harvard College Observatory). 459722
- energy losses**
 Energy deposition and electron energy degradation in molecular hydrogen. (A12). [Data] 488792
 Energy loss, angular distributions and charge fractions of low energy hydrogen transmitted through thin carbon foils. (B25, A14). [Data] 494157
- energy transfer**
 Electronic to vibrational energy transfer from $I(5^2P^o_{sub} 1/2)$. III. H_2 , HD , and D_2 . (A12). 477752
- energy-level transitions**
 Differential cross section and generalised oscillator strength for the $1s \rightarrow (2s+2p)$ transition in atomic hydrogen for incident electron kinetic energies 136, 200 and 300 eV and scattering up to 20° . (A12). [Data] 462155
 Four euclidean conformal group approach to the multiphoton processes in the H-atom. (A12). 463988
 Gauge model of parity nonconservation in neutral-current phenomena. (A21, A12; $SU(2) \times U(1) \times U(1)$). 478475
 Padé approximant formulas for atomic oscillator strengths. (A12). 463967
 The parity violation effects in the two-photon transitions in atomic hydrogen. (A12). 463977
- exchange interactions**
 ESR study of hydrogen exchange in x-irradiated imidazole. (B14). 490490
- excitation**
 Ab initio electron-molecule scattering theory including polarisation: vibrational and vibrational-rotational excitation of H_2 . (A12). [Data] 474603
 The Bethe approximation: where to draw the line. (A12). 481025
 Electron-photon angular correlations in the electron impact excitation of $H(2p)$. (A12). [Data] 488831
 Glory oscillations in inelastic forward scattering for H^+-H_2 . (A12). [Data] 474608
 Interactions of atoms with solid surfaces: nonadiabatic mechanism for the production of excited state hydrogen and helium atoms at a metal surface. (A12, B22; Surface-interaction potential model, time dependent Schroedinger equation, semiclassical approximation). 467176
 Low-energy excitations of hydrogen and deuterium in $LaNi_5$. (A13). [Data] 481078
 Off-diagonal potentials in the distorted-wave expansion for electron-atom scattering. (A12). 481052
 Pseudo-state expansions and the second Born approximation for excitation of atomic hydrogen by proton impact. (A12). [Data] 471319
- excited states**
 Ab initio configuration interaction calculations on the hydrogen molecular excimer, H_2^* . (A12). 488813
 Excited electronic states of H_3 and their role in the dissociative recombination of H_3^+ . (A12). 488858
- fine structure**
 Chapter 12. Application of the perturbation theory: fine and hyperfine structure of hydrogen atom. (A11). 480961
 $3S$ /sub $1/2$ - 3^2D /sub $5/2$ / interval in atomic hydrogen. II. Experiment and results. (A12). 463964
 $3S$ /sub $1/2$ - 3^2D /sub $5/2$ / interval in atomic hydrogen. I. Two-

- photon line-shape theory. (A12). 464107
- fischer-tropsch synthesis**
- Effects of electron beam irradiation on gas mixture of carbon monoxide and hydrogen in the presence of solid catalysts. (B14). 481730
- fluorescence**
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. II. Calibration of microwave sources over a wide temperature range. (A12). 485419
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. I. Shapes of H and D Lyman- α lines from microwave sources. (A12). 485484
- g value**
- Radiolysis of concentrated solutions. 1. Pulse and γ radiolysis studies of direct and indirect effects in LiCl solutions. (B14). [Data] 460601
- ground states**
- Dispersion relations for the Stark effect in the hydrogen atom. (A12). 483182
- Pairwise-correlated generalized valence bond model of electronic structure. V. A multiconfiguration overlap approximation for GVB pair energies. (A12; Exploratory studies). 464066
- h centers**
- Fluorescence of interstitial atomic hydrogen in alkali halides doped with I $^-$. (A13). 481126
- harmonic oscillators**
- Dynamical symmetries in a spherical geometry. (A11). 462084
- hartree-fock method**
- Near Hartree-Fock limit study of the linear chain of hydrogen atoms. (A12). 459744
- hot atom chemistry**
- Interaction of energetic tritium with silicon carbide. (B13). [Data] 472476
- hyperfine structure**
- Chapter 12. Application of the perturbation theory: fine and hyperfine structure of hydrogen atom. (A11). 480961
- Finite nucleus model for the Fermi contact interaction. (A12, A21; Schrodinger equation, Coulomb plus delta function potential). 477754
- [Data] Hydrogen atom within spherical boxes with penetrable walls. (A12). 488860
- inelastic scattering**
- The optical potential in the scattering of hydrogen and deuterium atoms from LiF and NaF (001). (A13). 459791
- infrared spectra**
- Density narrowing of a rotational line of H₂ dissolved in Ar. (A12). [Data] 462103
- Theoretical interpretation of the infrared spectra of the hydrogen bond. (A12). 464111
- interatomic forces**
- Approximation of potential-energy functions for two-center systems. (A12). 463939
- H atom-rare gas interaction potentials from an electron gas model. (A12). 459719
- Simple approximations for the long-range interactions of S-state alkali atoms with rare gas and hydrogen atoms. (A12). 481044
- Some applications of the virial theorem to molecular force fields: the zero virial reaction coordinate and diatomic potentials from the normalized kinetic field functions. (A12). 464052
- interstitials**
- Band modes of hydrogen in the bcc metals Nb, V, and Ta. (B22). 486897
- Fluorescence of interstitial atomic hydrogen in alkali halides doped with I $^-$. (A13). 481126
- ion-atom collisions**
- An analytical expression for impact parameter coulomb excitation by H $^+$. (A12). 464099
- Charge exchange between H(2s) and energetic projectiles. (A12). 474567
- Charge transfer of O $^{++}$ and Ne $^{++}$ with H. (A12). 488779
- Charge-transfer cross sections for collisions of Li $^{3+}$, Be $^{4+}$, B $^{5+}$, and C $^{6+}$ ions with atomic hydrogen. (A12). 477814
- Classical four-body calculations of $^4\text{He}^+ + \text{H}$ and $\text{H} + \text{H}$ collisions. (A12). 488762
- Differential cross sections for excitation of a atomic hydrogen by protons. (A12). 474563
- Differential cross sections for the production of H atoms in collisional electron detachment of H $^-$ ions on He, H, and H₂ targets. (A12). 464032
- Effect of target distortion on electron detachment differential cross section for H $^- + \text{He}$ and H $^- + \text{H}$ collisions. (A12). 464033
- Electron capture by 0.1-13 keV C $^+$, N $^+$ and O $^+$ ions in H and H₂. (A12). [Data] 462138
- Electron capture by slow multicharged ions in atomic and molecular hydrogen. (A12). 463970
- Electron removal from atomic hydrogen by collisions with fully stripped iron ions. (A12). 488894
- Electron removal from atomic hydrogen by collisions with fully stripped oxygen ions. (A12). 485515
- Electron transfer processes from atomic hydrogen by collision with bare nuclear ions. (A12). 464076
- Ion cyclotron resonance study of reactions of ions with hydrogen atoms. (A12). [Data] 464012
- Rearrangement collisions in highly excited states of atomic hydrogen. (A12). 464090
- Scaling of cross sections for K-electron capture by high-energy protons and alpha-particles from the multielectron atoms. (A12). 467283
- Single-electron-capture cross sections for multiply charged O, Fe, Mo, Ta, W, and Au ions incident on H and H₂ at intermediate velocities. (A12). 464043
- Symmetry forcing and convergence properties of perturbation expansions for molecular interaction energies. (A12). 471354
- Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- Theory of electron transfer and ionization. (A12). 474558
- ion-molecule collisions**
- Charge transfer reactions of ground N $^+(^1\text{P})$ and excited N $^+(^1\text{D})$ state ions with neutral molecules. (A12). 467266
- Differential cross sections for the production of H atoms in collisional electron detachment of H $^-$ ions on He, H, and H₂ targets. (A12). 464032
- Electron capture in H $^+$ -H₂ collisions. (A12). 488890
- Electron capture by 0.1-13 keV C $^+$, N $^+$ and O $^+$ ions in H and H₂. (A12). [Data] 462138
- Electron capture and ionization processes for Ar $^{2+}$ incident on H₂ (90-1200) keV. (A12). 463979
- Electronic transitions in the ion-molecule reaction (Ar $^+$ + H₂ bold-arrow-left-right Ar + H₂ $^+$) \rightarrow ArH $^+$ + H. (A12). 477705
- Glory oscillations in inelastic forward scattering for H $^+$ -H₂. (A12). [Data] 474608
- H₂(a $^3\Sigma^+$ /sub g/ \rightarrow b $^3\Sigma^+$ /sub u/) continuum emission excited by low-energy rare-gas ion collisions. (A12). 467172
- Single-electron-capture cross sections for multiply charged O, Fe, Mo, Ta, W, and Au ions incident on H and H₂ at intermediate velocities. (A12). 464043
- ionization**
- Experimental and theoretical study of the Penning ionisation of H atoms by He metastables. (A12). 477797
- Ionization collisions between atoms. (A12). 471393
- Ionization of hydrogen atoms by electron impact. (A12). 488780
- Ionization stability of discharges sustained by primary electrons. (A14). 489213
- Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
- ionization potential**
- Multiphoton ionization potentials for H and He atoms in intense circularly polarized laser beams. (A12). 477791
- iron 56 reactions**
- Fragmentation of relativistic ^{56}Fe . (A34). 478784
- isoelectronic atoms**
- Effects of electric fields and electric field-gradients on X-ray scattering factors and the Compton profile of hydrogenic atoms. (A12). 459752
- isotope ratio**
- D/H ratios in speleothem fluid inclusions: a guide to variations in the isotopic composition of meteoric precipitation. (B32). 469538
- Sampling system of atmospheric water vapour for analysis of the γ sub(D) relationship. (B32, B11). 479660
- isotopic exchange**
- Determination of hydrogen atom concentration during ethane pyrolysis by radiochemical method. (B11). [Data] 468632
- Deuterium separation factors in ammonia-hydrogen exchange. (D12, B12). [Data] 466440
- Process for exchanging hydrogen isotopes between gaseous hydrogen and water. (B12). 462708
- laboratory equipment**
- Optical measurements on hydrogen at ultrahigh static pressures. Summary report for NRIP W233. (E42). 474156
- lamb shift**
- A precision determination of the Lamb shift in hydrogen. (A12). [Data] 462137
- laser spectroscopy**
- Proposed implementation of laser raman scattering spectroscopy for analysis of hydrogen isotopes. (B11). 481626
- line broadening**
- The width of Hsub(α) in an atomic hydrogen atmosphere. (A12). 477732
- The width of the Na D2 resonance line (λ 5890) in atmospheres of helium and neon and atomic hydrogen. (A12). [Data] 481009
- liquefaction**
- Hydrogen liquifier with productivity up to 2l/hour operating due to the liquid helium evaporation. (E12). 470310
- lyman lines**
- The Bethe approximation: where to draw the line. (A12). 481025
- magnetic properties**
- Sublattice magnetization of ErFe₂-H. (B22, B12). 479440
- matrix elements**
- Expansions in inverse principal quantum number for atoms in high Rydberg states. (A12). 462149
- measuring methods**
- Imaging atom-probe and field-ion investigations of hydrogen in metals. (A14). 467661
- metastable states**
- Calculations of atomic electron affinities. (A12). 471323
- Lifetimes of fine structure levels of metastable H₂ in the c $^3\Pi$ /sub u/ state. (A12). 477720
- Parity nonconservation in the hydrogen atom. (A21, A12; Asymmetry, process rates, invariants, preliminary results). 468046
- microwave spectra**
- $3^3\Sigma$ sub 1/2- $3^3\Pi$ /sub 5/2- interval in atomic hydrogen. I. Two-photon line-shape theory. (A12). 464107
- molecular orbital method**
- Tempered orbital energies and the potential curve within a molecule. (A12). 488749
- molecular structure**
- Green's functions in quantum chemistry II - Improving the Σ perturbation approach. (A11). 459700
- Many-body scattering theory methods as a basis for molecular

- structure calculations. (A12). 464034
- molecule collisions**
- Generalized transition state theory. Quantum effects for collinear reactions of hydrogen molecules and isotopically substituted hydrogen molecules. (B12). 486600
- molecule-molecule collisions**
- An ab initio potential energy surface for the study of CO-H₂ collisions at thermal energies. (A12). 483165
- Classical rotational cross sections for H₂-HD and HD-HD collisions. (A12). 483168
- Classical trajectory study of rotational excitation in collisions of hydrogen molecules. (A12). 459730
- Quantum chemistry by random walk: H₄ square. (A12). [Data] 477698
- Vibrational excitation cross sections and V → T rate constants in molecular hydrogen. (A12). 477746
- Vibrational relaxation HF (v=3,4) by H₂, D₂, and CO₂. (A12). 467191
- molecules**
- Ab initio configuration interaction calculations on the hydrogen molecular excimer, H₂*. (A12). 488813
- A Fano-profile study of the predissociation of the 3pπ D¹P₁sub(u) state of H₂. (A12). 488812
- Hydrogenium and hydrodenium-ion. (A12). 474555
- On diatomic state mixing and treatment of overlap in the diatomics-in-molecules theory. (A12). 483204
- The third-order dynamic electric susceptibility of the hydrogen molecule. (A12). 459773
- muonic atoms**
- Atomic capture of negative mesons in hydrogen. (A12). [Data] 485483
- neutral-current interactions**
- Parity nonconservation in the hydrogen atom. (A21, A12; Asymmetry, process rates, invariants, preliminary results). 468046
- nuclear magnetic resonance**
- Temperature dependent lineshape changes in solid H₂ for low OH₂ concentrations. (A17). 471948
- Utilization of NMR in determination of hydrogen structure in solids. (A13, B22). 464126
- nuclear reaction analysis**
- Nuclear assay of coal. Volume 3. Determination of total hydrogen content of coal by nuclear techniques. Final report. (B11). 460395
- Use of the resonant reaction ¹H(³H,n,γ) for obtaining hydrogen concentration profiles in materials. (B11). 472391
- nuclear reaction kinetics**
- Hydrogen determination by charged particle reactions. (B11). 478821
- optical properties**
- Optical and electrical properties of evaporated amorphous silicon with hydrogen. (B24). 486989
- oscillator strengths**
- Application of an extremum principle to the variational determination of the generalized oscillator strengths of helium and hydrogen atom in intense magnetic fields. (A12, A15; Cross sections). 485549
- One term approximation to and direct computation of oscillator strength sums. (A12). 467149
- Pade approximant formulas for atomic oscillator strengths. (A12). 463967
- Partial oscillator strengths (25-40 eV) for repulsive states of D₂(H₂). (A12). [Data] 471412
- p invariance**
- Measurements of parity nonconservation in hydrogen and deuterium. (A12). 464000
- Space and time parity nonconservation effects in the diatomic molecule spectra. (A11, A12). 492424
- penning effect**
- Experimental and theoretical study of the Penning ionisation of H atoms by He metastables. (A12). 477797
- Penning ionisation of atomic hydrogen by metastable neon atoms. (A12). 483199
- phase transformations**
- Metallic hydrogen research. (B24, B22). 465702
- Temperature dependent lineshape changes in solid H₂ for low OH₂ concentrations. (A17). 471948
- photoelectron spectroscopy**
- Threshold photoelectron spectra of atmospheric molecules. I. Description of method and application to H₂, D₂, and N₂. (A12). [Data] 464096
- Vibrational-state dependence of the intensity and angular distribution of photoelectrons from H₂ at the impact of 304 Å line. (A12). 483179
- photoionization**
- The behaviour of hydrogen-like atoms in an intense long-wave field. (A12). 488774
- Dissociative photoionisation of H₂: proton kinetic energy spectra. (A12). 477825
- Resonant dissociative photoionization of H₂. (A12). 477767
- Vibrational-rotational structure in the photoionization cross section of molecules. (A12). 474593
- Vibrational-rotational structure in the angular distribution and intensity of photoelectrons from diatomic molecules. III. (A12). 483180
- photon-atom collisions**
- Excitation and decay of a multilevel atom. (A12). 485427
- photon-molecule collisions**
- Angular distribution of HeII photoelectron spectrum of H₂. (A12). 483185
- Measurement of x-ray scattering cross sections of hydrogen and helium with synchrotron radiation. (A12; 5 to 7 keV, total and differential cross sections, polarization). 471350
- On isotope effects in the predissociations of HD. (A12). 471334
- photonuclear reactions**
- Production of excited hydrogen atoms by photodissociation of the H₂ molecule near threshold. (A12). 492539
- Upper limit of the cross section for photodissociation of H₂ into excited atoms in the range 620-350 Å. (A12). 492531
- plasma**
- Measurement of the ion profile by stationary CO₂-laser scattering from a hydrogen plasma. (A14). 464332
- plasma diagnostics**
- Measurement of ion temperature in hydrogen plasma with stationary CO₂-laser light scattering. (A14). 471650
- plasma guns**
- Effect of beam scattering on plasma heating with relativistic electron beams. (A14). 478166
- polarizability**
- Ab initio SCF polarisabilities and electron-molecule adiabatic polarisation potentials. (A12). 488920
- The behaviour of hydrogen-like atoms in an intense long-wave field. (A12). 488774
- Electron correlation in molecular many-electron systems by diagrammatic many-body perturbation theory: Correlation energies and dipole polarizabilities of the hydrogen molecule. (A12). [Data] 464004
- Hydrogen atom within spherical boxes with penetrable walls. (A12). 488860
- The third-order dynamic electric susceptibility of the hydrogen molecule. (A12). 459773
- positron-atom collisions**
- Application of a variational principle for the scattering length for the target wave function imprecisely known. (A12). 477702
- Complex scaling: an analytic model and some new results for e⁺ H resonances. (A21, A12). 468043
- An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
- potential energy**
- Rearrangement collisions in highly excited states of atomic hydrogen. (A12). 464090
- Tempered orbital energies and the potential curve within a molecule. (A12). 488749
- predissociation**
- Interference in dissociative attachment cross sections of H₂ around 14 eV. (A12). [Data] 471408
- production**
- Advanced synfuel production with fusion. (B12). 486653
- Energy balance calculations and assessment of two thermochemical sulfur cycles. (B12). 472445
- Energy-balance and economic considerations for fusion thermochemical hydrogen production. (B12). 468865
- Fusion and coal energy system for the production and delivery of SNG, steam, and electric power: the Burning Bush Concept. (B12). 460531
- High-temperature nuclear heat source for hydrogen production. (E33). [Data] 473935
- Hydrogen production using nuclear power source. (F11). 477489
- Hydrogen-producing cycles using the decomposition of hydrogen bromide. (B12). 472447
- One- and two-dimensional heating analyses of fusion synfuel blankets. (A14). 475141
- Production of electrothermochemical hydrogen using a fusion source by high-temperature process heat. (B12). 475927
- Research on hydrogen by Gaz de France. (F11). 463786
- Studies on closed-cycle processes for hydrogen production. 3. (B12, B14). 490401
- Study of chemical production utilizing fusion neutrons. Progress report, March - September 1978. (B12). 493689
- Thermal decomposition of hydroiodic acid and hydrogen separation. (B12). 472471
- Thermodynamic investigation on new thermochemical water-decomposition cycles. (B12). 481663
- quantitative chemical analysis**
- Determination of hydrogen atom concentration during ethane pyrolysis by radiochemical method. (B11). [Data] 468632
- A feasibility study of the prompt gamma-ray analysis of bone using californium-252. (B11). [Data] 486506
- radiation chemistry**
- Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (no. 11). (B14). 481728
- radiolysis**
- Measurement of radiolytic hydrogen at the high level waste storage facility of Wiederaufarbeitungsanlage Karlsruhe (WAK). (B16). 465511
- reflection**
- Specular reflection of helium and hydrogen molecular beams from the (111) plane of silver. (A13). 459783
- research programs**
- Optical measurements on hydrogen at ultrahigh static pressures. Summary report for NRIP W233. (E42). 474156
- resonance absorption**
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. II. Calibration of microwave sources over a wide temperature range. (A12). 485419
- Resonance absorption measurements of atom concentrations in reacting gas mixtures. I. Shapes of H and D Lyman-α lines from microwave sources. (A12). 485484
- rydberg correction**
- Partial oscillator strengths (25-40 eV) for repulsive states of D₂(H₂). (A12). [Data] 471412
- Spectrum of triatomic hydrogen. (A12). 477758

- s states**
The 3d-triplet complex of molecular hydrogen: the measured Zeeman effect and the calculated eigenvectors and g-factors. (A12). [Data] 481030
- scattering lengths**
Measurement of coherent neutron scattering lengths of gases. (A12). [Data] 483181
- sodium**
Spherical solid model for muon and hydrogen in metals. (A13). 481129
- solar atmosphere**
H₂ emission in the solar atmosphere. (A15). 471767
- solid solutions**
Structure of solid H₂-D₂ mixtures. (A13). 489012
- solubility**
Solubility of hydrogen and deuterium in body-centered-cubic uranium alloys. (B15, B12). [Data] 465506
- spatial distribution**
¹⁵N nuclear reaction profiling of hydrogen in solids. (B23, B11). 494071
- Hydrogen depth profiling using secondary ion mass spectrometry. (B21, B11). 493886
- Use of nuclear reactions and ion channeling techniques for depth profiling hydrogen isotopes in solids. (B21, B11). 493861
- spectra**
Effect of the proton mass on the spectrum of the hydrogen atom in a strong magnetic field. (A12). 474638
- ³²S/sub 1/2-³²D/sub 5/2/ interval in atomic hydrogen. II. Experiment and results. (A12). 463964
- spin orientation**
Local strain effects for isolated pairs of ortho-H₂ molecules in para hydrogen. (A13). 467454
- spin-lattice relaxation**
Spin-lattice electron relaxation of hydrogen atoms in calcium fluorides, at liquid helium temperature. (A13). 471498
- stability**
Ionization stability of discharges sustained by primary electrons. (A14). 489213
- stark effect**
Complex coordinates and the Stark effect. (A12; Reviews). 467177
- Confinement of the resonances in hydrogen Stark effect. (A12). 471340
- Dispersion relations for the Stark effect in the hydrogen atom. (A12). 483182
- Highly-excited atoms. (A12). 477768
- Study of the Stark and Zeeman effects in parabolic coordinates. (A12). 488838
- storage**
Hydrogen absorption in ternary substituted AB₃ alloys with particular reference to La_{1-x}/sub x/Y/sub x/Ni₃ and LaNi_{3-x}/sub x/Al/sub x/ alloys. (B23). 479498
- Low temperature magnetic properties of the hydrides and deuterides of Er(Fe/sub 1-x/Mn/sub x)₂. (B23). 479504
- sulfuric acid**
Kinetic behaviour of trapped hydrogen atoms in sulfuric acid glasses γ-irradiated at 63-90 K. (B14). [Data] 465478
- t invariance**
Space and time parity nonconservation effects in the diatomic molecule spectra. (A11, A12). 492424
- thermodynamic cycles**
Studies on closed-cycle processes for hydrogen production. 3. (B12, B14). 490401
- thermodynamics**
Energy-balance and economic considerations for fusion thermochemical hydrogen production. (B12). 468865
- trapping**
Ion channeling studies of hydrogen lattice location. (A32). 475698
- Model for hydrogen isotope backscattering, trapping and depth profiles in C and a-Si. (A14). 471625
- ultrasonic waves**
Sound velocity in liquid hydrogen and deuterium. (A17). 489705
- vibrational states**
Ab initio electron-molecule scattering theory including polarisation: vibrational and vibrational-rotational excitation of H₂. (A12). [Data] 474603
- Vibrational-state dependence of the intensity and angular distribution of photoelectrons from H₂ at the impact of 304 Å line. (A12). 483179
- visible spectra**
Spectrum of triatomic hydrogen. (A12). 477758
- x-ray diffraction**
On the X-ray scattering factors of metallic and molecular hydrogen crystals. (A13). [Data] 462220
- zeeman effect**
Study of the Stark and Zeeman effects in parabolic coordinates. (A12). 488838
- HYDROGEN ADDITIONS:**
superconductivity
Superconductivity in Pd-Si-H(D) alloys. (B22). [Data] 462912
- HYDROGEN BROMIDES:**
See HYDROBROMIC ACID
- HYDROGEN CHLORIDES:**
See HYDROCHLORIC ACID
- HYDROGEN COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- crystal-phase transformations**
A new phase transition in 2H-TaSe₂ - a dilatometric study. (A13). [Data] 459828
- einstein coefficients**
Radiative lifetimes of OH(A²Σ) and Einstein coefficients for the A-X system of OH and OD. (A12). 471333
- ionic conductivity**
NMR study of proton motion in the defect pyrochlores HTaWO₆ and HTaWO₆ x H₂O. (B24). 490684
- lifetime**
Radiative lifetimes of OH(A²Σ) and Einstein coefficients for the A-X system of OH and OD. (A12). 471333
- molecule collisions**
Generalized transition state theory. Quantum effects for collinear reactions of hydrogen molecules and isotopically substituted hydrogen molecules. (B12). 486600
- vacancies**
NMR study of proton motion in the defect pyrochlores HTaWO₆ and HTaWO₆ x H₂O. (B24). 490684
- HYDROGEN DEUTERIDE:**
adsorption
Catalytic activity of rhenium during the adsorption of hydrogen deuteride. (B22). 484192
- atom-molecule collisions**
DWBA calculations of relaxation and kinetic cross sections. III. (A12). 467247
- Multiple scattering theory. III. (A12). 483234
- Vibrational-rotational relaxation from high vibrational states in He-HD. (A12). 464100
- cosmochemistry**
Rotationally excited HD toward zeta Ophiuchi. (A15). [Data] 464691
- energy levels**
Nonadiabatic effects in the B,C, and E,F states of HD. (A12; Transitions, line strengths). 467151
- energy transfer**
Electronic to vibrational energy transfer from I(5 ²P/sub 1/2/). III. H₂, HD, and D₂. (A12). 477752
- isotopic exchange**
Theoretical study of hot-atom chemistry. The T + HD exchange reactions. (B13, B12). 486733
- j-j coupling**
Finite nucleus model for the Fermi contact interaction. (A12, A21; Schroedinger equation, Coulomb plus delta function potential). 477754
- lande factor**
g factors and related magnetic properties of molecules. Formulation of theory and calculations for H₂/sup ts+/, HD*, and D₂/sup ts+/. (A12). 467215
- molecular ions**
g factors and related magnetic properties of molecules. Formulation of theory and calculations for H₂/sup ts+/, HD*, and D₂/sup ts+/. (A12). 467215
- molecule-molecule collisions**
Classical rotational cross sections for H₂-HD and HD-HD collisions. (A12). 483168
- rotational states**
Observation of the infrared spectrum of the hydrogen molecular ion. (A12). 459768
- vibrational states**
Observation of the infrared spectrum of the hydrogen molecular ion. (A12). 459768
- HYDROGEN FLUORIDES:**
See HYDROFLUORIC ACID
- HYDROGEN FUEL CELLS:**
See FUEL CELLS
- HYDROGEN HYDROXIDES:**
See WATER
- HYDROGEN IONS:**
See also ANTI-PROTONS; HYDROGEN IONS 1 MINUS; HYDROGEN IONS 1 PLUS; HYDROGEN IONS 2 PLUS; HYDROGEN IONS 3 PLUS; PROMPT PROTONS; PROTONS
- backscattering**
Hydrogen backscattering on gold: Charge state and energy distribution (300 eV - 10 keV). (A13). [Data] 471505
- binding energy**
Ion-induced dipole Hsub(n⁻) clusters. (A12). 471386
- electron attachment**
Dissociative electron attachment to the metastable c ³PIu state of molecular hydrogen. (A12). 488771
- electron correlation**
Momentum distributions for two-electron systems: electron correlation and the Coulomb hole. (A12). 462099
- electronic structure**
Series solutions and the variational principle. (A12). 467293
- excitation**
First-order Coulomb exchange approximation and electron impact excitation of ground-state hydrogenic ions to an arbitrary s state. (A12). 474657
- f2 layer**
Calculated daily variations of O⁺ and H⁺ at mid-latitudes. (B33, A15). [Data] 469550
- ion pairs**
Ion-induced dipole Hsub(n⁻) clusters. (A12). 471386
- ion sources**
Analysis of particle species evolution in neutral-beam injection lines. (E16, A14). 491624
- ion-atom collisions**
Inner-shell-electron capture by H⁺, He²⁺, and Li²⁺ projectiles from CH₄, Ne, and Ar. (A12). 485513
- mobility**
Electromigration of hydrogen and deuterium in vanadium and niobium by a resistance method. (B22). 469266

- population inversion**
Population inversions in hydrogen-like ions. (A14). 462400
- small angle scattering**
Small angle backscattering of hydrogen, deuterium, helium and neon from single and polycrystalline nickel. (A13). [Data] 471472
- structure functions**
Momentum distributions for two-electron systems: electron correlation and the Coulomb hole. (A12). 462099
- HYDROGEN IONS 1 MINUS:**
- angular distribution**
Dissociative electron attachment on H_2S : energy and angular distributions of H^- ions. (A12). [Data] 488752
- beam neutralization**
Apparatus for neutralization of accelerated ions. (A14, A12; Patent). 489159
- carrier density**
 H^- and D^- production in plasmas. (A14). 489103
- collisions**
 H^- and D^- production in plasmas. (A14). 489103
- dissociation**
Dissociating states of the H_3^- system. (A12). 485447
Effect of vibrational and rotational excitation on dissociative attachment in hydrogen. (A12). 467152
- electron detachment**
The bound-free photo-detachment cross-section of H^- . (A15). 471937
Measurement of H^- density in plasma by photodetachment. (A14). 485653
- electronic structure**
Ab initio CI LCAO calculations of the lowest core-excited Σ resonant states of H_2^- . (A12). 459733
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for $1 < \text{or} = Z < \text{or} = 4$. (A12). 464110
- energy levels**
Complex coordinates and the Stark effect. (A12; Reviews). 467177
General applicability of a big molecule Gaussian SCF/CI program for calculations of excited metastables and of negative ion bound states and resonances. I. Stabilization method: H^- . (A12). 467229
Simple extended STO basis sets. helium. (A12). 464064
- energy spectra**
Dissociative electron attachment on H_2S : energy and angular distributions of H^- ions. (A12). [Data] 488752
- ion sources**
Development of high current low energy H^+ ion source. (A12). 477739
Measurements of the cesium flow from a surface-plasma H^- ion source. (E16). 477068
Polarized ion source development at Argonne National Laboratory. (E16, A12). 491654
Studies on possibility of accelerating polarized protons at KEK. (B16, A12). 491673
- ion-atom collisions**
Differential cross sections for the production of H atoms in collisional electron detachment of H^- ions on He, H, and H_2 targets. (A12). 464032
Effect of target distortion on electron detachment differential cross section for $\text{H}^- + \text{He}$ and $\text{H}^- + \text{H}$ collisions. (A12). 464033
Ionization of 0.5 MeV H by Ar and a comparison with the H^-/Ar system. (A12). 467193
- ion-ion collisions**
Double charge transfer in H^+/H^- collisions. (A12). [Data] 471322
- ion-molecule collisions**
Differential cross sections for the production of H atoms in collisional electron detachment of H^- ions on He, H, and H_2 targets. (A12). 464032
- metastable states**
Calculations of atomic electron affinities. (A12). 471323
- molecular ions**
Ab initio CI LCAO calculations of the lowest core-excited Σ resonant states of H_2^- . (A12). 459733
- polarized beams**
Polarized-ion sources. (E16, A12). 491605
- potential energy**
Dissociating states of the H_3^- system. (A12). 485447
- spin orientation**
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- stability**
General applicability of a big molecule Gaussian SCF/CI program for calculations of excited metastables and of negative ion bound states and resonances. I. Stabilization method: H^- . (A12). 467229
- stark effect**
Complex coordinates and the Stark effect. (A12; Reviews). 467177
- wave functions**
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for $1 < \text{or} = Z < \text{or} = 4$. (A12). 464110
- HYDROGEN IONS 1 PLUS:**
See also ANTIPROTONS; PROMPT PROTONS; PROTONS
- collisions**
 H^+ and D^+ sputtering of thin tantalum films in the energy range of 0.6 to 15 keV. (B22). 476301
Internal resonance Raman scattering of characteristic target K x rays in thick silicon targets. (A12). 463994
Secondary electron emission by energetic ions incident on metal surfaces. (A12). [Data] 477726
Sputtering of uranium. (A12, B25; Yields, H^+ and He^+ ions, 13 to 120 keV, angular distributions). 459731
- elastic scattering**
Elastic scattering of electrons from H_2^+ . (A12). 471401
- ground states**
On the relativistic corrections for H_2^+ . (A12). 483169
- ion implantation**
On depth profiling of hydrogen and helium isotopes and its application to ion-implantation studies. (A13). 467371
Technique for profiling ^1H with 2.5-MeV Van de Graaff accelerators. (E16). 480449
- ion sources**
Development of high current low energy H^+ ion source. (A12). 477739
Polarized-ion sources. (E16, A12). 491605
- ion spectroscopy**
Measurement of the $n = 2$ density operator for hydrogen atoms produced by passing protons through thin carbon targets. (A12). 467204
- ion-atom collisions**
Application of semiclassical theory of inelastic scattering to $\text{H}^+ + \text{Cs} \rightarrow \text{H}(2s) + \text{Cs}^+$. (A12). 483225
Calculation of K-vacancy production by relativistic projectiles. (A12). 474548
Calculations of proton-impact excitation of helium using the Glauber approximation. (A12). 474661
Collisional excitation of simple systems. (A12; keV range, cross sections). [Data] 477806
Differential elastic cross-section calculation of H^+ ion on Cs target using uniform and transitional approximations. (A12). 483162
Double K-shell electron capture for ion-atom collisions at intermediate energies. (A12). 477775
Electron capture into the $n = 3$ states of hydrogen by proton impact on CO , CO_2 , and N_2O . (A12). 474616
Formation of metastable hydrogen atoms by charge exchange of fast protons in magnesium and barium vapors. (A12). 488875
 $\text{L}_1\text{-L}/\text{sub } 2,3/\text{M}/\text{sub } 4,5/$ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477750
Nuclear "time-delay" and x-ray-proton coincidences near a nuclear scattering resonance. (A12). 467166
Observation of mixed-parity electric-dipole oscillations in charge transfer to the $n = 2$ hydrogen levels by fast protons in gases. (A12). 474654
Probabilities for 2s-2p excitation ion-atom collisions. (A12). 488873
Rearrangement collisions in highly excited states of atomic hydrogen. (A12). 464090
Scaling of cross sections for K-electron capture by high-energy protons and alpha-particles from the multielectron atoms. (A12). 467283
Selected topics from the theory of electron-atom and atom-atom collisions. (A12). 459756
Single- and double-electron capture by 1-100-keV protons in collisions with magnesium and barium atoms. (A12). 477796
Symmetry forcing and convergence properties of perturbation expansions for molecular interaction energies. (A12). 471354
Yield spectrum for protons impacting on helium. (A12). 463998
- lande factor**
g factors and related magnetic properties of molecules. Formulation of theory and calculations for $\text{H}_2/\text{sup } \text{ts} + /$, HD^+ , and $\text{D}_2/\text{sup } \text{ts} + /$. (A12). 467215
- molecular ions**
g factors and related magnetic properties of molecules. Formulation of theory and calculations for $\text{H}_2/\text{sup } \text{ts} + /$, HD^+ , and $\text{D}_2/\text{sup } \text{ts} + /$. (A12). 467215
On the relativistic corrections for H_2^+ . (A12). 483169
- polarized beams**
Polarized-ion sources. (E16, A12). 491605
- HYDROGEN IONS 2 PLUS:**
The dependence of the charge states of H_2^+ . (A12). 464054
- electron-ion collisions**
Energy dependence of dissociative recombination below 0.08 eV measured with (electron-ion) merged-beam technique. (A12). [Data] 464041
- energy levels**
Semiclassical quantization of the low lying electronic states of H_2^+ . (A12). 474660
Separation of variables for three-body problem. (A12). 488836
Separation of variables for three-body problem. Application to H_2^+ . (A12). 464003
- interatomic forces**
Some applications of the virial theorem to molecular force fields: the zero virial reaction coordinate and diatomic potentials from the normalized kinetic field functions. (A12). 464052
- ion-atom collisions**
Dynamics of the reaction $\text{H}_2^+(\text{He}, \text{H})\text{HeH}^+$. Influence of various forms of reactant energy on the total and differential cross section. (A12). 483238
- ion-ion collisions**
Negatively charged fragments in the dissociation of H_2^+ and H_3^+ ions. (A12). 464059
- ion-molecule collisions**
Measurement of the rotational energy distribution of ground state N_2^+ ions from H_2^+/N_2 collisions by laser-induced fluorescence. (A12). 488785
- lande factor**
Magnetic properties of H_2^+ . (A12). 463999
- molecular structure**
Diatomic-molecule vibrational potentials. II. New representations. (A12). 474579
- stopping power**
Stopping power measurement of H_2 and N_2 for molecular ion. (A12). [Data] 474581

- vibrational states**
New functional form for representing vibrational eigenenergies of diatomic molecules. Application to H_2^+ ground state). (A12). 474589
- HYDROGEN IONS 3 PLUS:**
- dissociation**
Excited electronic states of H_2 and their role in the dissociative recombination of H_3^+ . (A12). 488858
- electron-ion collisions**
Energy dependence of dissociative recombination below 0.08 eV measured with (electron-ion) merged-beam technique. (A12). [Data] 464041
- ion-ion collisions**
Negatively charged fragments in the dissociation of H_2^+ and H_3^+ ions. (A12). 464059
- recombination**
Excited electronic states of H_2 and their role in the dissociative recombination of H_3^+ . (A12). 488858
- transmission**
Transmission of fast H_2^+ molecules through thin carbon foils. (A13). 488964
- HYDROGEN ISOTOPES:**
See also DEUTERIUM; HYDROGEN 1; HYDROGEN 4; TRITIUM
- atom-atom collisions**
Excitation transfer between atomic hydrogen isotopes. (A12). [Data] 462122
- excitation**
Excitation transfer between atomic hydrogen isotopes. (A12). [Data] 462122
- extraction columns**
Exchange reaction tower of multiple stage type. (D12). 470225
- gas chromatography**
Investigations on the hydrogen isotope analysis by means of gas chromatography. (B11). 486509
- ion scattering analysis**
Hydrogen depth profiling using elastic recoil detection. (B11). 460387
- isotope separation**
Hydrogen-isotope separation in dc-arc plasma. (D13). 491395
- isotopic exchange**
Exchange reaction tower of multiple stage type. (D12). 470225
- laser isotope separation**
Separation of hydrogen isotopes. (D13). 494655
- muonic molecules**
Vacuum polarization in μ mesic molecules of hydrogen isotopes $vodoroda$. (A12). 485496
- HYDROGEN NITRATES:**
See NITRIC ACID
- HYDROGEN PEROXIDE:**
- chemical reaction yield**
Photochemical generation of superoxide radicals in aqueous solutions. (B12). 462709
- chemical reactions**
Kinetics of the interaction of HO_2 and O_2^- radicals with hydrogen peroxide. The Haber-Weiss reaction. (B14; Gamma radiation). 472553
- decomposition**
Decomposition of hydrogen peroxide on a two-component NiO-CdO catalyst and the effect of ionizing radiation on its catalytic properties. (B14). 493816
- Decomposition of hydrogen peroxide on a mixed NiO-MgO catalyst and the effect of ionizing radiation on the catalyst. (B14). 493815
- g value**
Radiolysis of concentrated solutions. 1. Pulse and γ radiolysis studies of direct and indirect effects in LiCl solutions. (B14). [Data] 460601
- infrared spectra**
The emission bands of HO_2 between 1.43 and 1.51 μm . (B12). [Data] 460538
- The near infra-red emission band of DO_2 : determination of the molecular geometry. (B12). [Data] 460539
- photolysis**
Photochemical generation of superoxide radicals in aqueous solutions. (B12). 462709
- Sensitivity of the photodissociation of NO_2 , NO_3 , HNO_3 and H_2O_2 to the solar radiation diffused by the ground and by atmospheric particles. (B33, A15). [Data] 469566
- quantitative chemical analysis**
Refractive index method for at line determinations of hydrogen peroxide in cleaning baths. (B11). 478825
- HYDROGEN PHOSPHATES:**
See PHOSPHORIC ACID
- HYDROGEN SULFATES:**
See SULFURIC ACID
- HYDROGEN SULFIDES:**
On the basic substances used in the separation process by isotope exchange $H_2S - H_2O$, at two temperatures, in view of producing heavy water. (B12). 460517
- angular distribution**
Dissociative electron attachment on H_2S : energy and angular distributions of H^- ions. (A12). [Data] 488752
- corrosion**
Carbide precipitation in the heat affected zone of a GTA weld in 21-6-9 stainless steel. (B21, B15). 486841
- Dissolution of iron during the initial corrosion of carbon steel in aqueous H_2S solutions. (B15). 460631
- energy spectra**
Dissociative electron attachment on H_2S : energy and angular distributions of H^- ions. (A12). [Data] 488752
- environment**
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). [Data] 480090
- H_2S transport data for an aquatic system. (C52). [Data] 480089
- evaporation**
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). [Data] 480090
- oxidation**
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). [Data] 480090
- toxicity**
Aqueous studies of hydrogen sulfide releases from a heavy water extraction facility. (C52, B12). [Data] 480090
- HYDROGEN TRITIDE:**
- separation processes**
Radioactive off-gas separator. (E51). 495195
- HYDROGEN 1:**
- isotope ratio**
Hydrogen, oxygen and carbon isotopic evidence for the origin of rodingites in serpentinized ultramafic rocks. (B31). [Data] 462975
- isotopic exchange**
The solubility and isotopic exchange equilibrium for hydrogen isotopes in lithium. (B12). 490408
- muonic molecules**
Adiabatic representation of three-body problem with the Coulomb interaction. (A33). 493312
- nmr spectra**
Experimental set-up for NMR double resonance in rotating frame. (A13, E42). 485596
- nuclear magnetic resonance**
Analysis and computerized fitting of the lineshape of the NMR powder pattern. (A13, B24; General powder pattern fitting, powder pattern fitting (two tensors), and draw a powder pattern (shift tensor), in FORTRAN IV). 459815
- Nuclear magnetic resonance studies of 1H in zirconium halide hydrides: Shielding tensors. (B23). 479483
- solubility**
The solubility and isotopic exchange equilibrium for hydrogen isotopes in lithium. (B12). 490408
- HYDROGEN 1 MINUS BEAMS:**
- beam bending magnets**
Study of a 90° bending magnet for H^- beams. (E16). 480510
- beam production**
Cesium injection system for negative ion duoplasmatrons. (A12; Patent). 474604
- Formation of hydrogen negative ions by surface and volume processes with application to negative ion sources. (A12). 492533
- energy spectra**
Time-resolved beam energy measurements at LAMPF. (E16). 477003
- ion sources**
Polarized-ion sources. (E16, A12). 491605
- Possibility of polarized beams at the AGS. (E16). 491582
- ion-atom collisions**
Technical progress report, October 1, 1977-September 30, 1978. (A12). [Data] 474681
- ion-molecule collisions**
Technical progress report, October 1, 1977-September 30, 1978. (A12). [Data] 474681
- polarized beams**
Possibility of polarized beams at the AGS. (E16). 491582
- HYDROGEN 1 TARGET:**
- cryogenic fluids**
Cryogenic hydrogen-deuterium target. (E41). 495091
- deuteron reactions**
Analyzing power measurements in deuteron-proton elastic scattering. (A34). 483939
- Differential cross section of scattering of deuterons on protons in the deuteron energy range of 800-1430 keV. (A34). 483833
- electron reactions**
Nucleon structure and nucleon-nucleon interaction. (A33). 468429
- muon reactions**
Study of the experimental conditions of measurement of the μ capture ratio in liquid hydrogen by mean of the lifetime method. Application to a total capture in lithium. (A34). 472277
- neutron reactions**
Hydrogen scattering cross section, $^1H(n,n)^1H$. (A34; Above 100 keV, review). [Data] 493454
- Measurement of the total cross section for the $^1H(n,\gamma)^2H$ reaction between 37 and 72 MeV. (A34). 483847
- New measurement of deuteron binding energy. (A34). 478781
- Nucleon weak interaction and the $n+p \rightarrow d+\gamma$ process. (A21). 478473
- The total neutron cross sections for hydrogen, deuterium and carbon. (A34). [Data] 468505
- Two-quantum radiative thermal neutron capture in 1H . (A34). 478785
- 180 degree n-p cross sections for fast neutron measurements with counter telescopes. (E41). 470861
- nitrogen 14 reactions**
Differential fragmentation cross sections for 7.3 GeV nitrogen ions incident on protons. (A34). 478783
- nitrogen 15 reactions**
Use of the resonant reaction $^1H(^{15}N,\alpha\gamma)$ for obtaining hydrogen concentration profiles in materials. (B11). 472391
- nmr spectra**
Selective high resolution proton NMR spectra in solids. (A13). 483275
- photonuclear reactions**
Asymmetry of the cross section for pions-plus photoproduction on polarized protons at 340 MeV photons. (A34). 478731

- Properties of the charged photopion production operator and the $^2\text{H}(\gamma, \pi^+)2\text{n}$ cross section. (A33). 490058
- Study of neutral pion photoproduction on hydrogen in the $\Delta(1232)$ range. (A22). 493096
- pion minus reactions**
- Information on the nucleon-isobar content in helium from 5 GeV pion-helium interactions. (A34). 478697
- Jets produced in π^+ , π^- , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127
- pion plus reactions**
- Jets produced in π^+ , π^- , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127
- polarized targets**
- Recycling of butanol from irradiated target material. (B12). 484049
- proton reactions**
- Differential cross section for proton-proton bremsstrahlung at 1.38 GeV/c. (A22). 475682
- The influence of the proton charge form factor on the Coulomb effect. (A33). 483750
- Jets produced in π^+ , π^- , and proton interactions at 200 GeV on hydrogen and aluminum targets. (A22). 486127
- The $p(\text{pion}) + p \rightarrow d + \pi^+$ reaction with a polarised proton beam. (A34). 468574
- Polarization measurement in elastic scattering at 2.1 GeV/c in small transferred impulse range. (A22). 464918
- Polarization of the deuteron in the reaction $p + p \rightarrow d + \pi^+$. (A33). 483786
- Proton total cross sections on ^1H , ^2H , ^4He , ^9Be , C and O in the energy range 180 to 560 MeV. (A34). 468558
- Scaling and nonscaling of inclusive pion production in nuclear collisions. (A22, A34). 468194
- HYDROGEN 2:**
- See DEUTERIUM
- HYDROGEN 3:**
- See TRITIUM
- HYDROGEN 4:**
- energy levels**
- Particle unstable ^4H . (A34). 468526
- hypernuclei**
- Further investigation of the γ -transitions in sub(Λ) ^4H and sub(Λ) ^4He hypernuclei. (A34). 483835
- Hypernuclei. (A22). 468205
- The sub(Λ) ^4He -sub(Λ) ^4H binding energy difference. (A34). 490165
- lambda particles**
- The sub(Λ) ^4He -sub(Λ) ^4H binding energy difference. (A34). 490165
- HYDROLASES:**
- See also ACID PHOSPHATASE; ALKALINE PHOSPHATASE; ATP-ASE; CATHEPSINS; DNA-ASE; FIBRINOLYSIS; GLYCOSYL HYDROLASES; LIPASES; LYSOZYME; PAPAINE; PEPAIN; PEPIN; PEPTIDE HYDROLASES; RENIN; THROMBIN; TRYPSIN
- catalysis**
- Use of charcoal adsorption for the microassay of acetyl-CoA hydrolase. (C31; ^{14}C). 479978
- HYDROLOGY:**
- Summary of exploration drilling in F area for hydrogeologic information. (B31). [Data] 479638
- computer codes**
- Verification studies of GWHEAD, a computer code for determining the ground water heat with three-dimensional flow. (B31). [Data] 479636
- cyprus**
- Environmental isotope survey. (B32). 481948
- ground water**
- Single-borehole techniques. Present status and examples of recent applications. (B32). 460891
- information systems**
- Hydrologic data bank contents, 1978: user information bulletin 5. (B31, B32). 487077
- isotope dating**
- Changes in the sedimentation histories of lakes using lead-210 as a tracer of sinking particulate matter. (B32). 462981
- Hydrodynamic aspects of carbon-14 groundwater dating. (B32). 462991
- Krypton-85 dating of groundwater. (B32). 463003
- isotope effects**
- Nuclear hydrology research at Lucas Heights. (B32). 490821
- isotope ratio**
- Application of environmental isotopes to groundwater investigations in Qatar. (B32). 463008
- Application of oxygen-18 and deuterium for investigating the origin of groundwater in connection with a dam project in Zambia. (B32). 460880
- Argon-39, carbon-14 and krypton-85 measurements in groundwater samples. (B32). 462994
- Aspects of the isotope hydrology of the Great Artesian Basin, Australia. (B32). 460875
- Carbon-14 measurements in aquifers with methane. (B32). 462980
- The chalk aquifer in Haute-Normandie (France) and its relationship with surface waters. Use of isotopic techniques. (B32). 460881
- Changes in formation gas composition and isotope content as indicators of unsaturated-zone chemical reactions related to recharge events. (B32). 463002
- Complementary use of environmental isotopes and water chemistry for the hydrogeological study of the Ribeirão Preto groundwater. Brazil. (B32). 460886
- The contribution of environmental isotopes to studies of large aquifers in Morocco. (B32). 462993
- Environmental and artificial tracers for investigating leakages into salt mines. (B32). 460902
- Environmental isotopes and water chemical studies for groundwater research in Hungary. (B32). 460882
- Environmental isotope studies related to groundwater flow and saline encroachment in the chalk aquifer of Lincolnshire, England. (B32). 460892
- An environmental isotope study of a major dewatering operation at Sishen mine, northern Cape Province. (B32). 460900
- An evaluation of isotope concentrations in the groundwater of Saudi Arabia. (B32). 463004
- Geochemical research on the thermal waters of Amelie-les-Bains (Pyrenees Orientales) and Plombières-les-Bains (Vosges). (B32). 462984
- Groundwater recharge studies in Maharashtra. Development of isotope techniques and field experience. (B32). 463001
- Identifying the origin of underground water in the Andean Cordillera. (B32). 460894
- Importance of infiltration from the Chimbo River in Ecuador to groundwater. A study based on environmental isotope variations. (B32). 460893
- Influence of water pollution of the Sava River on the Ranney wells near Belgrade. (B32). 460877
- Investigation of regional geohydrology south of Great Slave Lake, Canada, utilizing natural sulphur and hydrogen isotope variations. (B32). 460901
- Isotope hydrology of the Val Corsaglia, Maritime Alps, Piedmont, Italy. (B32). 460879
- Isotope hydrology of the Mont Blanc Massif. (B32). 460884
- Isotope hydrology in northern Chile. (B32). 462989
- Isotope investigation of water losses from the Las Lajas dam, Chihuahua, Mexico. (B32). 460876
- Isotope study in the alpine karst region of Rawil, Switzerland. (B32). 460896
- Models for the runoff from a glaciated catchment area using measurements of environmental isotope contents. (B32). 462985
- New technique of in-situ soil-moisture sampling for environmental isotope analysis applied at Pilat sand dune near Bordeaux. HETP modelling of bomb tritium propagation in the unsaturated and saturated zones. (B32). 463006
- Oxygen isotopic composition of sulphates from some mineral waters and mine waters in western Bohemia. (B32). 460897
- Palaeoclimatic information from deuterium and oxygen-18 in carbon-14-dated north Saharian groundwaters. Groundwater formation in the past. (B32). 463005
- Palaeoclimatic trends deduced from the hydrochemistry of a Triassic sandstone aquifer, United Kingdom. (B32). 462983
- Regional and temporal variations of deuterium in the precipitation and atmospheric moisture of Central Europe. (B32). 460888
- Some problems in the interpretation of isotope measurements in United Kingdom aquifers. (B32). 462988
- Study, using stable isotopes, of flow distribution, surface-groundwater relations and evapotranspiration in the Okavango Swamp, Botswana. (B32). 460883
- Tritium profiles in Kalahari sands as a measure of rain-water recharge. (B32). 463007
- Uranium isotope disequilibrium in groundwaters of southeastern New Mexico and implications regarding age-dating of waters. (B32). 462982
- Uranium isotopic investigations and radiocarbon measurements of river-groundwater systems, Sabarmati Basin, Gujarat, India. (B32). 460878
- Use of isotopic geothermometers in the Larderello geothermal field. (B32). 463000
- mathematical models**
- Burial ground technology. (B31, B32). 479618
- meetings**
- Isotope hydrology. (B32). 462987
- permeability**
- Evaluation of the hydrogeologic and bed rock geologic conditions at Stereoc, Sweden. (E52). [Data] 492247
- radioactive tracer logging**
- In situ observation of vertical groundwater movements by labelling with heavy water and by associated measurement of gamma rays and neutrons. Development in the laboratory and application in the field. (B32). 462998
- Tritium tracing in hydrogeochemical studies using model lysimeters. (B32). 462997
- research programs**
- Nuclear hydrology research at Lucas Heights. (B32). 490821
- savannah river plant**
- Geohydrology of deposits of Claiborne age at the Savannah River Plant. (B31). 479621
- three-dimensional calculations**
- Development of a quasi three-dimensional groundwater model for a portion of the Nevada Test Site. (B31, B32; THESIS, in FORTRAN for CDC 6400). 465785
- tracer techniques**
- Groundwater tracing with post-sampling activation analysis using bromide and iodide ions injected simultaneously into a shallow well system. Master's thesis. (B31, B11). 469516
- Natural isotopes and their relation with hydrology. (B32). 490823
- Radioactive tracer study of the effect of swells on the sea bed. (B32). 462986
- Study of the dynamic behaviour of the estuary of the Guadalquivir river. (B32). 462978
- Study of the Kalamos Springs in Greece with environmental isotopes. (B31, B32). 465786
- The tritium/helium-3 method in hydrology. (B32). 465819
- HYDROMAGNETIC WAVES:**
- See also ALFVEN WAVES; FAST MAGNETOACOUSTIC WAVES; MAGNETOACOUSTIC WAVES

- disturbances**
Hydromagnetic perturbations due to localized flows: An eddy theorem. (A14). 467509
- incompressible flow**
On the character of magnetic field in the hydromagnetic generalised Be'nard problem. (A13). 481066
- rotation**
Hydromagnetic flow between two parallel porous walls in a rotating system. (A13). 477851
- wave propagation**
Hydromagnetic waves in high β plasmas. (A14). 459895
- HYDROMETALLURGY:**
- tracer techniques**
Use of radioisotopes for the solution of hydrometallurgical problems in aluminium and copper extraction. (D24). 476885
- HYDROPEROXY RADICALS:**
(HO2)
- biochemical reaction kinetics**
Radiolytic study of the action of perhydroxyl radicals with ascorbic acid. (C11, B14). 479776
- HYDROXAMIC ACIDS:**
- biological effects**
Experimental studies of the use of DTPA and other agents to limit the systemic burden of plutonium after wound contamination. (C21; Nicotinoxyhydroxamic acid; para-butoxyphenylacetohydroxamic acid; calcium N-acetyl-6-amino-hexanoate). [Data] 479939
- HYDROXIDES:**
See also ALUMINIUM HYDROXIDES; AMMONIUM HYDROXIDES; BARIUM HYDROXIDES; CADMIUM HYDROXIDES; CALCIUM HYDROXIDES; CESIUM HYDROXIDES; IRON HYDROXIDES; LEAD HYDROXIDES; POTASSIUM HYDROXIDES; RUBIDIUM HYDROXIDES; SODIUM HYDROXIDES; STRONTIUM HYDROXIDES; THORIUM HYDROXIDES; YTTRIUM HYDROXIDES; ZIRCONIUM HYDROXIDES
- cosmochemistry**
Observations of OH and ammonia in the direction of T Tauri stars. (A15). 464606
- zeeman effect**
Observations of OH and ammonia in the direction of T Tauri stars. (A15). 464606
- HYDROXY ACIDS:**
(For carboxylic acids only; for other acids see HYDROXY COMPOUNDS coordinated with the descriptor for the particular acid group, e.g., SULFONIC ACIDS.)
See also ACETYL SALICYLIC ACID; CITRIC ACID; DOPA; EOSIN; GLYCOLIC ACID; HEIDA; HYDROXYPROLINE; HYDROXYTRYPTOPHAN; MANDELIC ACID; MEVALONIC ACID; PANTOTHENIC ACID; ROSE BENGAL; SERINE; THYRONINE; TYROSINE
- radiolysis**
Radiation chemical oxidation of hydroxy acids. (B14). 479255
- HYDROXY COMPOUNDS:**
See also more specific entries as listed in the *INIS Thesaurus*.
- chemical radiation effects**
Radiation degradation of poly(α -hydroxyisobutyric acid) and poly(glycolic ester). (B14; γ radiation). 460600
- chemical reactions**
Effect of solvation energy on electron reaction rates in hydroxylic solvents. (B14). 486735
- isomerization**
Lactim-lactam tautomeric interconversion mechanism in water-polar aprotic solvent water systems. II. Hydration of 2-hydroxypyridines. Evidence for a bifunctional water-catalyzed proton transfer. (B12). [Data] 486569
- molecular structure**
Radiation damage to dihydrouracil. (C11; Electrons, uv radiation). 469581
- radiation injuries**
Radiation damage to dihydrouracil. (C11; Electrons, uv radiation). 469581
- radiosensitivity**
Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 487254
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
- solvation**
Effect of solvation energy on electron reaction rates in hydroxylic solvents. (B14). 486735
- toxicity**
Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
- HYDROXY-ALPHA-ALANINE-BETA:**
See SERINE
- HYDROXYACETIC ACID:**
See GLYCOLIC ACID
- HYDROXYBENZENE:**
See PHENOL
- HYDROXYETHYLIMINODIACETIC ACID:**
See HEIDA
- HYDROXYL RADICALS:**
- carcinogens**
Radiation activation of carcinogens and the role of sup(OH) and O_2^- . (C11). [Data] 469582
- chemical reaction kinetics**
Some aspects of the evaluation of kinetic data. (B12). 460439
- chemical reaction yield**
Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
- Measurement of high temperature rate constants using a discharge flow shock tube. (B12). 460469
- Rate constants from Monte Carlo quasi-classical trajectory calculations. A procedure for importance sampling. (B12). 460509
- chemical reactions**
Evaluation and compilation of chemical kinetic data. (B12). 462698
- Experimental and theoretical examples of the value and limitations of transition state theory. (B12). 462704
- Non-Arrhenius behavior in bimolecular reactions of the OH radical. (B14, B12). 462797
- Pulse radiolysis of gaseous ammonia-oxygen mixtures. (B14; Pulsed irradiation). [Data] 465477
- Quantitative comparison between detailed (state selected) relative rate data and averaged (thermal) absolute rate data for complex forming reactions. (B12). 462735
- Reaction mechanism of cobalt(III)-polyamine complexes with OH radicals. (B14). 465484
- cosmochemistry**
Copernicus observational searches for OH and H₂O in diffuse clouds. (A15). 478341
- Survey of infrared stars and planetary nebulae for circumstellar OH emission. (A15). [Data] 464661
- decay**
Effects of pulse dose on hydrated electron decay kinetics in the pulse radiolysis of water. A computer modeling study. (B14). 465487
- excitation**
OH spectroscopy with frequency-doubled dye laser radiation. (A12). 471364
- g value**
Radiolysis of concentrated solutions. 1. Pulse and γ radiolysis studies of direct and indirect effects in LiCl solutions. (B14). [Data] 460601
- interstellar space**
Interstellar molecules. (A15). 460065
- isotopic exchange**
Isotope exchange with HTO. (B11). 478869
- radiolysis**
Aqueous radiation chemistry of protein and nucleic acid constituents: ESR and spin-trapping studies. (B14). [Data] 462791
- rotational states**
The accuracy of predicted radioastronomical frequencies and the spectrum of hydroxyl. (A15). 471789
- scavenging**
Interaction of muonium with radiolysis products in pure water: OH.scavenging action by tert-butyl alcohol. (B14). 472507
- spectroscopy**
OH spectroscopy with frequency-doubled dye laser radiation. (A12). 471364
- HYDROXYPREGNENONE:**
- radioimmunoassay**
Radioimmunoassay of 17 α -hydroxyprogesterone in whole saliva and parotid fluid of children with congenital adrenal hyperplasia. (C61). 463456
- HYDROXYPROLINE:**
- quantitative chemical analysis**
Determination of nanogram quantities of hydroxyproline as a means of measuring collagen densities to detect focal pulmonary fibrosis. (C60). 470020
- HYDROXYTOLUENES:**
See CRESOLS
- HYDROXYTRYPTOPHAN:**
- radiosensitivity**
Drug-induced chimerism and prevention of graft-versus-host disease in lethally irradiated mice transplanted with rat bone marrow. (C14; Gamma radiation). 479851
- HYLIFE CONVERTER:**
(High Yield Lithium Injection Fusion Energy Converter.)
- maintenance**
Remote systems requirements of the high-yield lithium injection fusion energy (HYLIFE) converter concept. (A14, E15). 481236
- performance**
Electric power from laser fusion: the HYLIFE concept. (A14). 481213
- power generation**
Electric power from laser fusion: the HYLIFE concept. (A14). 481212
- radioactivity**
Environment and safety features of a Lawrence Livermore Laboratory laser fusion reactor design. (A14). 481237
- remote handling**
Remote systems requirements of the high-yield lithium injection fusion energy (HYLIFE) converter concept. (A14, E15). 481236
- Remote systems requirements of the High Yield Lithium Injection Fusion Energy (HYLIFE) converter concept. (A14). 481235
- specifications**
Electric power from inertial confinement fusion: the HYLIFE concept. (A14). 481211
- Environment and safety features of a Lawrence Livermore Laboratory laser fusion reactor design. (A14). 481237
- stresses**
Response of the laser fusion HYLIFE reactor chamber to the fusion microexplosion. (A14). 481196

HYOSCYAMINE:

radiosensitivity

- Effect of selected drugs on first-stage radioemesis in beagle dogs. (C14; Following x irradiation of abdomen). 49053

HYPERFINE STRUCTURE:

cobalt 57

- Determination of the ^{57}Co hyperfine field in Pd^{57}Co from Moessbauer emission spectra in the regime of fast relaxation. (A13). 459780

crystal lattices

- Relation between hyperfine field and lattice location measurements for heavy impurities in iron: influence of radiation damage. (A13). 459832

endor

- On effects of the dipole reservoir in radiofrequency discrete saturation. (A13). 474684

nucleon beams

- In beam measurements of nuclear electromagnetic moments and hyperfine fields. (A34, A13). 490222

HYPERFRAGMENTS:

See HYPERNUCLEI

HYPERGEOMETRIC FUNCTIONS:

series expansion

- The asymptotic expansions of integral functions of the hypergeometric type. (F50). 471176

HYPERNUCLEI:

- Kaons and antiprotons as probes of the nucleus. (A22). 475667

binding energy

- Hypernuclei. (A22). 468205

- The sub(Λ) ^4He -sub(Λ) ^4H binding energy difference. (A34). 490165

energy levels

- Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771

- Strangeness-exchange and strange nuclei. (A33, A21, A34, A22). 478623

energy-level transitions

- Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771

ground states

- Hypernuclear spectroscopy. (A33). 465040

- Hypernuclei. (A22). 468205

heavy ion reactions

- Fast hypernuclei production in collisions of relativistic ions with nuclei. (A33). 493236

isotope production

- Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771

lambda particles

- Further investigation of the γ -transitions in sub(Λ) ^4H and sub(Λ) ^4He hypernuclei. (A34). 483835

- Hypernuclei - why and how. (A22). 493110

nuclear reaction yield

- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432

reviews

- Hypernuclei. (A22). 468205

- Present and future prospects for kaon physics. (A22, A21). 475668

shell models

- Analysis of p-shell hypernuclei with effective lambda-nucleon potentials. (A11). 471277

HYPERON BEAMS:

See also LAMBDA PARTICLE BEAMS

beam focusing magnets

- Cryogenic design and performance of two quadrupoles used in the CERN hyperon-beam. (E16). 480426

HYPERONS:

See also ANTILAMBDA PARTICLES; ANTISIGMA PARTICLES; ANTIXI PARTICLES; LAMBDA PARTICLES; OMEGA MINUS; OMEGA PARTICLES; SIGMA NEUTRAL; SIGMA PARTICLES; SIGMA PLUS; XI-MINUS

particle decay

- Nonleptonic weak decays and constituent rearrangement model. (A21). 468079

semileptonic decay

- New, generalized Cabibbo fit and application to quark mixing angles in the sequential Weinberg-Salam model. (A21). 468138

- Renormalization effects of the axial vector matrix elements in the chiral limit. (A21). 460213

weak hadronic decay

- Comprehensive sum rules for S-wave amplitudes of nonleptonic hyperon decays. (A21). 483652

- Non-leptonic hyperon decays and the baryon spectrum. (A21). 475603

HYPERTENSION:

biomedical radiography

- Kidney angiography and renography in diagnosis of nephrogenic hypertension. (C61, C62). 480200

- Pharmacangiography of patients with vasorenal hypertension. (C61). 480260

diagnosis

- Diagnostic value of visualization of the right ventricle using thallium-201 myocardial imaging. (C62, C61, C60, C31). 487702

diagnostic techniques

- Mineralocorticoid hypertension: clinical and laboratory studies with special reference to selective percutaneous venography combined with aldosterone assay in the adrenal venous blood. (C62). 482455

nuclear medicine

- Kidney angiography and renography in diagnosis of nephrogenic hypertension. (C61, C62). 480200

radiation effects

- Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). [Data] 476568

- Neonatal irradiation nephropathy in the growing dog. II. Plasma renin activity and arterial pressure following neonatal, sublethal, whole-body irradiation. (C14; γ rays; beagles). [Data] 479875

radiosensitivity

- Endocrine factors influencing radiation injury to central nervous tissue. (C15, C63; Incidence of complication following radiotherapy of pituitary adenomas in patients with acromegaly or Cushing's disease). 472991

therapy

- Increased serum oestrone and oestradiol following spironolactone administration in hypertensive men. (C45). 463344

HYPERTHYROIDISM:

- The variation in serum triiodothyronine (T3) achieved during suppression testing in thyrotoxicosis. (C62). [Data] 463467

biological radiation effects

- Treatments of hyperthyroidism with iodine-131. (C21). 473065

diagnosis

- Experience in the "in vitro" diagnosis of thyroid diseases. (C62). 482430

- Simple, rapid thyroid function testing with ^{99m}Tc -pertechnetate thyroid uptake ratio and neck/high ratio. (C62, C21, C31). 487736

iodine 131

- Absorbed dose to ovaries and uterus during ^{131}I -treatment of hyperthyroidism: comparison between in vivo TLD measurements and calculations. (C55). 487643

radioimmunoassay

- Effect of Sulpirid on blood serum prolactin- and TSH-levels. (C45). [Data] 494376

radioisotope scanning

- Radioisotope investigations of hormonal shifts and metabolism of erythropoietic factors in case of thyrotoxicosis. (C62). 482403

radiotherapy

- Labelled amino acids in plasma of patients with thyrotoxicosis and thyroid cancer after radioiodine treatment. (C64). 482492

- Standard dose ^{131}I therapy for hyperthyroidism caused by autonomously functioning thyroid nodules. (C64). [Data] 473529

HYPERTONIC SOLUTIONS:

radiosensitivity

- Effect of treatment with various anisotonic solutions on the radiosensitivity of cultured CHO cells. (C11; X rays). [Data] 479772

- Potentially lethal damage versus sublethal damage: independent repair processes in actively growing Chinese hamster cells. (C11; Effects of osmotic pressure differences due to NaCl concentrations in buffer solutions on sensitivity of cells to x rays). 476527

HYPERTROPHY:

radiation effects

- Neonatal irradiation nephropathy in the growing dog. I. Renal morphological and functional adaptations following neonatal, sublethal, whole-body irradiation. (C14, C31; γ rays; beagles). 476574

HYPNOTICS AND SEDATIVES:

See also PHENOBARBITAL

blood-plasma clearance

- A radioreceptor assay for benzodiazepines. (C31). 494356

radioassay

- λ radioreceptor assay for benzodiazepines. (C31). 494356

radioimmunoassay

- Radioimmunoassay of methaqualone in human urine compared with chromatographic methods. (C62; ^{125}I tracer technique). 470138

receptors

- A radioreceptor assay for benzodiazepines. (C31). 494356

HYPOCHLOROUS ACID:

chemical reaction kinetics

- Kinetics of chlorine-ammonia reactions in seawater. Annual report. June 1, 1977-May 31, 1978. (B12). [Data] 475973

HYPOPHOSPHITES:

See HYPOPHOSPHOROUS ACID

HYPOPHOSPHOROUS ACID:

chemical radiation effects

- Radiation-stimulated oxidation of hypophosphorous and phosphorous acids in phosphoric-acid medium. (B14). 486756

radiolysis

- Radiation reduction of tin(2) ions in $\text{SnCl}_2\text{-NaOH-H}_2\text{O}$, $\text{SnCl}_2\text{-NaH}_2\text{PO}_2\text{-NaOH-H}_2\text{O}$ systems. (B14). 479195

HYPOPHYSECTOMY:

biological effects

- Radioreceptor assay for epidermal growth factor. (C31; ^{125}I tracer technique, mice). 479977

HYPOPHYSIS:

See PITUITARY GLAND

HYPOTHERMIA:

radiosensitivity

- Influence of overcooling on chick embryo radioresistance. (C14). 463164

HYPOTHESIS:

See also LIMITING FRAGMENTATION; MACH PRINCIPLE

biological radiation effects

- Contemporary biophysical theory of the action of different radiation types: basis and evidence. (C10). 465866

HYPOTHYROIDISM:

delayed radiation effects

- Thyroid hypofunction appearing as a delayed manifestation of accidental exposure to radioactive fall-out in a Marshallese population. (C15). 479907

- diagnosis**
 Neonatal hypothyroidism: detection by estimation of TSH in dried blood eluate. (C45). 482170
 Simple, rapid thyroid function testing with ^{99m}Tc -pertechnetate thyroid uptake ratio and neck/thigh ratio. (C62, C21, C31). 487736
- infants**
 Thyroxine and thyrotrophin radioimmunoassays using dried blood samples on filter paper for screening of neonatal hypothyroidism. (C45, C62). 487332
- neonates**
 Screening for neonatal hypothyroidism by thyroxine and thyrotrophin radioimmunoassays using dried blood samples on filter paper. (C45). 494374
- radiation effects**
 Principal disease or cause of death in nonsacrifice beagles receiving gamma radiation during development. (C14). [Data] 479863
- radioimmunoassay**
 Radioimmunoassay of thyroid-stimulating hormone (TSH) using a capillary blood-sample collected on filter paper. Value of the method for detecting neonatal hypothyroidism. (C45, C62). [Data] 487356
- HYPOXANTHINE:**
- quantitative chemical analysis**
 Biochemical effects of gamma radiation on "kembung" fish (rastrelliger neglectus). (C43). [Data] 469857
- HYPOXIA:**
 See ANOXIA
- H I REGIONS:**
 High-velocity clouds. (A15). 467896
 Search for intergalactic neutral hydrogen in three nearby groups of galaxies. (A15). 471858
- absorption spectra**
 H I emission-absorption measurements of the radio source CL4. (A15). 475371
- configuration**
 H I shells and supershells. (A15). 489517
- energy spectra**
 Detailed examination of the neutral hydrogen distribution in the Leo triplet NGC 3623, 3627, and 3628. (A15). 489514
- hydrogen**
 Neutral hydrogen observations of the CVn I group. (A15). 492855
- maps**
 Aperture-synthesis observations of H I in the galaxy M82. (A15). 475243
- mass**
 Neutral hydrogen observations of the CVn I group. (A15). 492854
- radiowave radiation**
 Aperture synthesis observations of H I and radio continuum in Arp 205 (NGC 3448 and UGC 6016). (A15). 471895
 Neutral hydrogen in NGC 1023 and IC 239. (A15). 471754
 Studies of radio recombination lines toward Orion A and W49B. (A15; Fluxes). 464535
 21-cm line observations of the group of galaxies NGC 2805, 2814, 2820 and IC 2458. (A15). 471896
- shock waves**
 Implications of high-velocity interstellar H I absorption features. (A15). 485854
- spatial distribution**
 Are there really intergalactic hydrogen clouds in the Sculptor group. (A15). 471834
 Gas distribution in the central region of the galaxy. I. Atomic hydrogen. (A15). 475214
- velocity**
 Neutral hydrogen in early-type galaxies in the Virgo cluster. (A15). 460086
- H2 REGIONS:**
 H II regions around sources of intense ultraviolet radiation. (A15). 467904
 Optical observations of the ionized regions. (A15). 467799
 Theoretical study of the radio recombination line and continuum emission from compact inhomogeneous H II regions. (A15). 485935
- chemical composition**
 Chemical composition of galactic and extragalactic H II regions. (A15). 460076
- correlations**
 High-resolution map of G339.6-0.1 and its possible association with 4U 1642-45. (A15). 489516
- electron density**
 Chemical composition of galactic and extragalactic H II regions. (A15). 460076
- energy spectra**
 A classification of the available astrophysical data of particular H II regions. VIII. (A15). 483487
 Comparison of forbidden-line and optical continuum electron temperatures in gaseous nebulae. (A15). 464531
 Hydrogen and helium radio recombination-line survey of galactic H II regions at 10 GHz. (A15). 489565
 Probable detection of interstellar ^3He and its significance. (A15). [Data] 464650
- far infrared radiation**
 Infrared observations of HII regions. (A15). 460058
- helium 3**
 Probable detection of interstellar ^3He and its significance. (A15). [Data] 464650
- infrared radiation**
 Infrared observations of the H2 regions. (A15). 467751
 An infrared study of the NGC 7538 region. (A15). 493005
 Theoretical aspects of the infrared emission from HII regions. (A15). 460105
- infrared spectra**
 Star formation at a front: Far-infrared observations of AFGL 333. (A15). 485931
- maps**
 High-resolution map of G339.6-0.1 and its possible association with 4U 1642-45. (A15). 489516
- mathematical models**
 Theoretical models of H2 regions and planetary nebulae: application to NGC7027. (A15). 467909
- milky way**
 H2 region detection. (A15). 467789
- molecules**
 Recombination lines from the interface between the Orion molecular cloud and the H II region NGC 1977. (A15). [Data] 464604
- near infrared radiation**
 Large-beam near-infrared and 24-GHz observations of M8. (A15). [Data] 464696
- nitrogen ions**
 The profiles of the N II 6584 Å line over the giant H II regions IC 1318b and c, NGC 7000 and IC 5070. (A15). 475218
- plasma waves**
 A possible non-kinematic explanation of the presence of satellite features in interstellar maser spectra. (A14, A15). 462316
- positrons**
 The annihilation of galactic positrons. (A15). 489427
- radiowave radiation**
 Radiowave emission of the H2 regions. (A15). 471781
 Studies of radio recombination lines toward Orion A and W49B. (A15; Fluxes). 464535
- recombination**
 Radio recombination lines from small H II regions. (A15). [Data] 464662
- stellar winds**
 Dynamics of ionized regions. (A15). 467802
- stimulated emission**
 Time variations of interstellar water masers in H II regions. (A15). 493006
- visible spectra**
 The profiles of the N II 6584 Å line over the giant H II regions IC 1318b and c, NGC 7000 and IC 5070. (A15). 475218
- I CODES:**
- internal irradiation**
 Internal radiation dose calculations with the INREM II computer code. (C21; Human organ dose calculations from inhaled or injected radionuclides of interest in the light-water-reactor fuel cycle). 479936
- IAEA:**
 See also ICTP
 The IAEA's role in promoting physical protection of nuclear material and facilities. (F41). 466946
- international cooperation**
 Technical co-operation and the developing world. (F61). 485255
- meetings**
 IAEA: Forum for international nuclear discussion. (F61). 466986
- nuclear facilities**
 IAEA/NEA activities in the field of gaseous wastes. (C52, E50). 480049
- recommendations**
 An overview of the Nuclear Safety Standards (NUSS) programme. (C52). 484659
- research programs**
 International aspects of isotopes and radiation development and use. (F61). 463847
- IAEA AGREEMENTS:**
 The regional co-operative agreement for research, development and training related to nuclear science and technology. (F61). 482967
- IAEA SAFEGUARDS:**
 Annual report on the U.S. program of technical assistance to safeguards of the International Atomic Energy Agency (POTAS). January-December 1977. (F41). 474369
 Implementation of IAEA safeguards in the U.S.-the regulatory view. (F42). 488502
 Implementation of IAEA safeguards in the USA-the IAEA view. (F42). 488500
 INSPECT: a package of computer programs for planning safeguards inspections. (F41). 480943
 Studies of technical criteria for the application of IAEA safeguards. (F41). 488465
- douglas point ontario reactor**
 Investigation of techniques for the application of safeguards to the CANDU 600 MW(e) nuclear generating station. (F41, E34). 471163
- inspection**
 Effect of International Atomic Energy Agency inspections at selected United States facilities. (F41, E36). 488471
 Experiences with the safeguarding of nuclear material in nuclear power stations. (F42). 488499
- international agreements**
 NPT and the role of the International Atomic Energy Agency in safeguards. (F41, F42). 471158
- nuclear power plants**
 The IAEA's activities in safeguarding nuclear materials and in developing internationally acceptable safety codes and guides for nuclear power plants. (F61, C52). 466983

- sabotage**
First training course on physical protection. (F40). 485226
- spent fuel elements**
The application of safeguards design principles to the spent fuel bundle container for 600 MW. (F41). 492321
- IBR-2 REACTOR:**
IBR-2 reactor today. (E36, E35). 470787
- neutron reflectors**
IBR-2 reactor physical start-up. Correlation analysis of pulse power fluctuations and moving reflector vibrations. (E36). 485001
- pulses**
IBR-2 reactor physical start-up. The power pulse shape measurements. (E36). 495040
- ICE:**
age estimation
Beryllium-10 mass spectrometry with a cyclotron. (B11, B31). 468658
- amorphous state**
Statistical model of the hydrated electron. Optical absorption spectrum. (A12). 492514
- crystals**
Statistical model of the hydrated electron. Optical absorption spectrum. (A12). 492514
- physical properties**
Ice blockage of water intakes. (E22, C52). 477113
- quantitative chemical analysis**
Levels of ammonium, sulfate, chloride, calcium, and sodium in snow and ice from southern Greenland. (C52). 487428
- ICE CONDENSERS:**
(A steam condenser using ice as the heat sink. Incorporated for example in the containment systems of McGuire, Watts Bar and other reactors.)
- supports**
Support construction for a fusible solid metal in a condensation chamber forming part of a reactor safety device. (E22). 470553
- Support structure for a meltable material in a condensation chamber forming part of a reactor safety structure. (E22). 482705
- ICR HEATING:**
Fast wave heating of two-ion plasmas in the Princeton large torus through minority cyclotron resonance damping. (A14). 489192
- ICRF heating and wave generation in the ATC tokamak. Part 1: wave generation, propagation and absorption. (A14). 485821
- Ion cyclotron heating by azimuthally rotating RF fields. (A14). 464519
- cyclotron harmonics**
Resonant waveparticle interaction at the half-integer cyclotron harmonics. (A14). 459985
- cyclotron instability**
Ion heating by the current-driven electrostatic ion cyclotron instability. (A14). 459981
- hot plasma**
Fast wave heating via mode conversion and ICRF scaling to reactor size. (A14). 464461
- tokamak devices**
ICRF heating of a Tokamak in a proton-deuteron mixture. (A14). 464361
- Magneto-acoustic resonance heating in the ion-cyclotron frequency domain. (A14). 489373
- ICRP:**
dose limits
ICRP dose limits from 1934 up to 1977. (C53). 480173
- Radiation risks, limits and ICRP. (C53, C52). 473283
- maximum permissible intake**
Limits for intakes of radionuclides by workers. Part I. (C53, C21). 494448
- radiation hazards**
Radiation risks, limits and ICRP. (C53, C52). 473283
- recommendations**
ICRP recommendations 1977: A summary and review. (C53). 482252
- Internal dosimetry data and methods of ICRP. Part 1. (C21, D15). 487285
- Some aspects of radiological protection in uranium mines. (C53, B31; Basic principles of ICRP). 463400
- ICRU:**
compiled data
Planned compilation of stopping power and range data. (C11, C55). 465874
- recommendations**
SI in radiological protection. (D15). 473582
- SI units in radiology. (C53). 463399
- ICTP:**
(International Centre for Theoretical Physics, Trieste.)
- developing countries**
The International Centre for Theoretical Physics. Physics and the developing countries. (F61). 492374
- IDAHO:**
geochemical surveys
Uranium hydrogeochemical and stream sediment reconnaissance of the Dillon NTMS Quadrangle, Montana/Idaho, including concentrations of forty-three additional elements. (B31). [Data] 472799
- geology**
Bibliography of geologic studies: Columbia Plateau (Columbia River Basalt) and adjacent areas in Idaho. (B31, E52). 472840
- Uranium potential and geology of the Challis Volcanics of the Basin Creek-Yankee Fork Area, Custer County, Idaho. Final report. (B31). 479642
- resources**
Uranium potential and geology of the Challis Volcanics of the Basin Creek-Yankee Fork Area, Custer County, Idaho. Final report. (B31). 479642
- IDAHO ADVANCED TEST REACTOR:**
See ATR REACTOR
- IDAHO CHEMICAL PROCESSING PLANT:**
decontamination
ICPP decontamination manual. (B13, B16). 460552
- fuel storage pools**
Disposal of low-level radioactive waste from a fuel storage basin. (E15). [Data] 473652
- operation**
Second electrolytic dissolution campaign of EBR-II fuel at ICPP. (B16). 479337
- personnel dosimetry**
Radiation exposure at the Idaho Chemical Processing Plant. (C21, C15, C54). [Data] 491014
- radiation accidents**
ICPP criticality event of October 17, 1978. Facts and sequential description of criticality event and precursor events. (E15, B16). 491546
- radioactive waste processing**
Heat transfer in high-level waste management. (E50). 488317
- radioactive waste storage**
Heat transfer in high-level waste management. (E50). 488317
- safeguards**
Applying new safeguards technology to existing nuclear facilities. (F41). 480936
- IDAHO MATERIALS TESTING REACTOR:**
See MTR REACTOR
- IDAHO NATIONAL ENGINEERING LAB:**
(Name changed in 1976 from NRTS and older material should be so indexed.)
- birds**
Raptors of the Idaho National Engineering Laboratory Site. (B33, C52). 494231
- radioactive waste facilities**
Environmental and other evaluations of alternatives for long-term management of stored INEL transuranic waste. (E50). [Data] 474168
- radioactive wastes**
Early screening of nuclear waste retrieval and processing alternatives. (E51). 488349
- Environmental surveillance report for the INEL Radioactive Waste Management Complex. Annual Report: 1978. (C52, E50). 494385
- Evaluations of alternatives for management of INEL transuranic waste. (E50). 480828
- Operational and engineering developments in the management of low-level radioactive waste at the Idaho National Engineering Laboratory. (E52). 474261
- seismic effects**
Evaluation of seismic criteria used in design of INEL facilities. (E51, C52). 466885
- IGNEOUS ROCKS:**
See also BASALT; GRANITES; GRANODIORITES; KIMBERLITES; LAVA; TUFF
- adsorption**
Studies of actinide sorption on selected geologic materials. (E52, B31; Quartz monzonite). 480898
- age estimation**
Radiometric Rb-Sr isochron ages for wadi El kareim volcanics. (B31). 490810
- chemical composition**
Petrogenetic mixing models and Nd-Sr isotopic patterns. (B31). [Data] 462961
- excavation**
Rock opening design and analyses for radioactive waste repositories. (E52, B31). 474267
- geochemistry**
Some uranium deposits associated with volcanic rocks, western United States. (B31). 460874
- heating**
The relationship between seismic velocity and radioactive heat production in crustal rocks: an exponential law. (B31). 484360
- isotope dating**
K-Ar geochronology and palaeomagnetism of volcanic rocks in the lesser Antilles island arc. (B31). [Data] 487065
- Rb-Sr geochronology and petrogenesis of the late mesozoic igneous rocks in the inner zone of the southwestern part of Japan. (B31). 476455
- Sm-Nd age of the Stillwater complex and the mantle evolution curve for neodymium. (B31). 487072
- Total rock Rb-Sr and U-Th-Pb isoptic study of Precambrian metavolcanic rocks in the lower Orange River region, Southern Africa. (B31). 476452
- 2,390 Myr Rb-Sr whole-rock for the Scourie dykes of north-west Scotland. (B31). [Data] 481927
- isotope ratio**
Hydrogen, oxygen and carbon isotopic evidence for the origin of rodingites in serpentinized ultramafic rocks. (B31). [Data] 462975
- Importance of alteration of volcanic material in the sediments of Deep Sea Drilling Site 323: chemistry, $^{18}\text{O}/^{16}\text{O}$ and $^{87}\text{Sr}/^{86}\text{Sr}$. (B31). [Data] 462966
- Petrogenetic mixing models and Nd-Sr isotopic patterns. (B31). [Data] 462961
- Strontium, lead and oxygen isotopic investigation of the Skaergard intrusion, East Greenland. (B31). 460856
- neutron activation analysis**
Rare earth element distribution of the Holterkollen plutonic complex, Oslo area, Norway. (B11). 481631
- petrogenesis**
Rare earth and strontium isotope evidence concerning the petrogenesis of North Chilean ignimbrites. (B31). 476466

- rubidium 87**
The chemical compositions, Rb-Sr isotopic systematics and tectonic setting of certain post-kinematic mafic igneous rocks, Limpopo Mobile Belt, Southern Africa. (B31). 484335
- seismic waves**
The relationship between seismic velocity and radioactive heat production in crustal rocks: an exponential law. (B31). 484360
- strontium 86**
The chemical compositions, Rb-Sr isotopic systematics and tectonic setting of certain post-kinematic mafic igneous rocks, Limpopo Mobile Belt, Southern Africa. (B31). 484335
- Sr isotopic features of the ophiolitic rocks in the Kamuikotan Zone, Hokkaido. (B31). [Data]** 490800
- strontium 87**
Sr isotopic features of the ophiolitic rocks in the Kamuikotan Zone, Hokkaido. (B31). [Data] 490800
- uranyl compounds**
Experimental study of the behaviour of uranium in magmas. Oxidation and coordination states. (B31). 494185
- IGNITION (THERMONUCLEAR):**
See THERMONUCLEAR IGNITION
- IKATA REACTOR:**
reactor licensing
Alteration of reactor installation (Unit 1 reactor facility) in Ikata Nuclear Power Station of Shikoku Electric Power Company, Inc. (C52). 482205
- reactor operation**
Operating experience at Ikata Nuclear Power Plant. (E32). 477244
- I.K.O.:**
flat magnetic spectrometers
Physics with the high-duty cycle electron accelerator under construction at I.K.O. (E16, A34). [Data] 470421
- linear accelerators**
Physics with the high-duty cycle electron accelerator under construction at I.K.O. (E16, A34). [Data] 470421
- ILEUM:**
See SMALL INTESTINE
- ILLINIUM:**
See PROMETHIUM
- ILLINOIS:**
buildings
Formerly utilized MED/AEC sites remedial action program: radiological survey of the former GSA, 39th Street Warehouse, 1716 Pershing Road, Chicago, Illinois. Final report. (E50). 461900
- geochemical surveys**
Dyersburg 1° x 2° NTMS area, Kentucky, Missouri, Tennessee, and Illinois: data release. Hydrogeochemical and stream sediment reconnaissance. (B31). [Data] 487096
- geologic faults**
Structural framework of the Mississippi Embayment of southern Illinois. (B31). 476430
- Wabash Valley Fault System in Southeastern Illinois. (B31). 476407**
- geology**
Structural framework of the Mississippi Embayment of southern Illinois. (B31). 476430
- geophysical surveys**
Integrated geophysical and geological study of the tectonic framework of the 38th parallel lineament in the vicinity of its intersection with the extension of the New Madrid Fault Zone. (B31). 476406
- radioactive materials**
Transportation of radioactive material in Illinois: June 6, 1977 - June 6, 1978. (E15). 482588
- radioactive wastes**
Illinois experience with low-level waste management. (E52). 474236
- spent fuel storage**
Experience in operation of the Morris Operation storage facility. (E52, E15). 495230
- ILLITE:**
cesium 137
Effect of deposit feeders on migration of ¹³⁷Cs in lake sediments. (B31). 469520
- IMAGE CONVERTERS:**
fabrication
Procedure for converting radiation to visible light. (E42). 471024
- Method for making phosphor screens. (E41). 485096**
- phosphors**
Method for making phosphor screens. (E41). 485096
- x radiation**
Improvements in phosphor screens. (E41). 485097
- IMAGE INTENSIFIERS:**
Autoradiographic enhancement of polaroid film. Final report, 18 April - 17 October 1978. (E17). 473749
- autoradiography**
Post-process intensification of photographic silver images, using radioactive compounds. (D20, B13). 494664
- diagnostic techniques**
X-ray diagnostic installation with an image intensifier TV chain and a dose rate control device. (C45). 461153
- fabrication**
Method for making phosphor screens. (E41). 485096
- fluoroscopy**
Image intensifier tomofluorography. (E41, C61). 463738
- foils**
High-speed screens in pediatric radiology. (C54). 469989
- phosphors**
Method for making phosphor screens. (E41). 485096
- radiation doses**
Gonad doses for male patients from stomach examination and oral cholegraphy using the X-ray image intensifying technique and television fluoroscopy. (C55). 463444
- radiation protection**
High-speed screens in pediatric radiology. (C54). 469989
- rare earths**
Experimental investigation of dose reduction possibilities in X-rays: Increased voltage and use of rare earth foils. (C55). 487649
- transistor trigger circuits**
Avalanche transistor pulser for fast-gated operation of microchannel plate image-intensifiers. (E41). 466805
- windows**
Radiation transmission window, especially for X-ray image amplifier. (E42, C45, C62). 485138
- x radiation**
Improvements in phosphor screens. (E41). 485097
- X-ray image amplifying tube. (E41). 474115
- IMAGE PROCESSING:**
(Procedure for restoring or enhancing images, often by computer.)
Image segmentation applied to the delineation of ventricles on a series of cardiac scintigrams. (C31). 469835
- PETT IV: design analysis and performance characteristics. (C62); Positron Emission Transverse Tomograph. 466419
- antineutrinos**
Program for geometric reconstruction of the antineutrino experiment events in the FNAL 15 ft bubble chamber. (F51, E41). 477544
- astronomy**
Maximum-entropy image processing in gamma-ray astronomy. (A15). 462479
- color**
Use of color display for selection of left ventricular regions of interest. (C62); /sup 99m/Tc-human serum albumin. 473420
- comparative evaluations**
Clinical evaluation of computer processing of liver gamma camera scans. (C62). [Data] 491345
- computer calculations**
Constrained optimisation and its application to scintigraphy. (C62). 473405
- computer codes**
Option of an event geometric reconstruction program on the BESM-6 computer for a heavy liquid chamber. (F51, E41). 492337
- Software of image processing system on the JINR basic computers and problems of its further development. (F51). 492355
- Software of the BESM-6 computer for automatic image processing from liquid-hydrogen bubble chambers. (F51). 492353
- computer-aided design**
A comparison and evaluation of image processing and display methods in brain scintigraphy. (C31). 469828
- Computer analysis of liver scans. (C31). 469819
- data processing**
Human visual modeling and image deconvolution by linear filtering. (C31). 469831
- The mathematical treatments of the static scintigraphic images. (C31). 469832
- Techniques to reduce spurious ringings in the restoration of scintigraphic images. (C31). 469822
- diagnostic techniques**
Doctors get computer 'intern'. (C62). 482348
- display devices**
Display processing of computed tomography images. (C62). 466412
- f codes**
Application of standard software of the CDC-6500 interactive graphic terminal for representation of spiral scanning data and event saving. (F51, E42). 492362
- g codes**
Program of event rejection by the method of quality control of track data measurements in the plane. (F51). 477550
- A simulation program for electronics experiments. (F51). 492343
- h codes**
Program package for the reconstruction of single tracks and fiducial marks in the magnetic spectrometer MIS-5. (F51). 477552
- heavy liquid bubble chambers**
Option of an event geometric reconstruction program on the BESM-6 computer for a heavy liquid chamber. (F51, E41). 492337
- j codes**
Practical realization of the measurement control program on a M-6000 computer. (F51). 488517
- m codes**
Filtration of chamber picture scanning results by means of graph theory methods. (E41). 492145
- MCBIS2 - Monte-Carlo package for preparing and analyzing experiments with the BIS-2 spectrometer. (E41, F51). 492141
- magnetic spectrometers**
Image processing from the ITEP 3m magnetic spectrometer at the PSP-2 automation with filtration in the BESM-6 computer in real time. (F51, E41). 492331
- mathematical models**
A study of the application of a deconvolution method to scintigraphy. (C62). [Data] 473415
- on-line control systems**
Practical realization of the measurement control program on a M-6000 computer. (F51). 488517
- on-line measurement systems**
Programs for data preparing in the on-line system of processing images obtained from track chambers. (F51). 482958
- optimization**
Nonlinear image processing methods. (C62; DOE). 466398

- p codes**
 Program package for the reconstruction of single tracks and fiducial marks in the magnetic spectrometer MIS-5. (F51). 477552
 Software for on-line processing images from the JINR magnetic spark spectrometer. (F51). 492352
- performance testing**
 An intercomparison of computer assisted image processing and display methods in liver scintigraphy. (C62). [Data] 473439
 A multicentre comparison of computer assisted image processing and display methods in scintigraphy. (C62). [Data] 473438
- programming**
 Technique of generating applied programs of the "Hydra" system. (F51). 466954
- quality control**
 Track-match procedure criteria in the reference mark plane for quality control of event measurements from the JINR measuring devices. (E41, F51). 492161
- s codes**
 Programs for data preparing in the on-line system of processing images obtained from track chambers. (F51). 482958
- spark chambers**
 Fast processing the film data file. (F51). 477542
- telescopes**
 Measurement of the size of the isoplanatic patch using a phase-correcting telescope. (A15). 464642
- IMAGE SCANNERS:**
 Image-scanning measurement using video dissection cameras. (E13, E42). 476914
- coordinated research programs**
 Nuclear medicine instrumentation development: DOE program, study group report. (E41, C62, B13). 474057
- photographic emulsions**
 Automaton for spectra measurement of charged particles detected in nuclear photoemulsions. (E41). 492052
- spark chambers**
 A review of radiation imaging by spark chambers. (E41). 474026
- IMAGE TUBES:**
 See also CAMERA TUBES; IMAGE CONVERTERS; VIDICONS
- efficiency**
 Effects of 1-MeV gamma radiation on a multi-anode microchannel array detector tube. (E41). 488276
- gamma detection**
 Effects of 1-MeV gamma radiation on a multi-anode microchannel array detector tube. (E41). 488276
- IMAGES:**
 Semiquantitative autoradiogram evaluation using the Agfacontour Professional emulsion. (C31). 476632
- comparative evaluations**
 Comparison of image quality of nuclear fuel neutron radiographs compared on silver halide and nitrocellulose film. (E17). 463557
- corrections**
 Corrections for screen image distortion in the R7912 transient digitizer. (E42, F51). 470979
- data processing**
 Generalised correction functions for convolutional techniques in three-dimensional image reconstruction. (C60). 491266
- image processing**
 Use of regularization method in activation and x-ray diffraction analysis. (F51). 495283
- measuring methods**
 Measuring method to determine focal spot sizes from pinhole camera images of diagnostic X-ray tubes. (D14, C61). 487790
- noise**
 Quantum fluctuations in radiographic screen-film systems. (E41). 480783
- pattern recognition**
 On the process of the x-ray image formation. (1). (E41). 482843
- quality control**
 Information content of poisson images. (C62). 491312
- rare earth compounds**
 Examinations of rare-earth film-screen-systems for image detectors in mammography. (C61). 466395
- three-dimensional calculations**
 Image formation by back-projection: a reappraisal. (C61). 491274
- tomography**
 Clinical needs in functional imaging. (C62). 487676
 Image formation by back-projection: a reappraisal. (C61). 491274
- IMATRAN VOIMA-1 REACTOR:**
 See LOVIISA-1 REACTOR
- IMIDAZOLES:**
 (Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.)
 See also HISTAMINE; HISTIDINE
- chemical radiation effects**
 ESR study of hydrogen exchange in x-irradiated imidazole. (B14). [Data] 490490
- chemical reaction kinetics**
 Univ., Berlin, Germany. (B12). 475942
- photolysis**
 Univ., Berlin, Germany. (B12). 475942
- radiosensitivity**
 Radiosensitization of hypoxic mammalian cells by dinitroimidazoles. (C11; γ rays; Chinese hamster cells (V-79-753-B)). [Data] 490902
 Radiosensitization, mutagenicity, and toxicity of Escherichia coli by several nitrofurans and nitroimidazoles. (C12; X radiation). 469607
- radiosensitizers**
 Distribution and tumour cytotoxicity of the radiosensitizer misonidazole (Ro-07-0582) in C57 mice. (C14). 494300
 Radiosensitizing effect of misonidazole on tumor control dose of mouse mammary carcinoma. (C14). 472965
 Radiosensitizing effect of Ro 07-0582. (C14). 466111
- toxicity**
 Radiosensitization, mutagenicity, and toxicity of Escherichia coli by several nitrofurans and nitroimidazoles. (C12; X radiation). 469607
- IMIDES:**
chemical radiation effects
 Polymerization of N-(fluoro phenyl) maleimides. (B14; γ radiation). [Data] 479131
- photochemistry**
 Intramolecular photochemical cycloaddition of a vinylogous imide. Crystal and molecular structure of a tetracyclic $C_{17}H_{23}O_2N$ product. (B12). [Data] 486659
- radiopharmaceuticals**
 Clinical comparison of /sup 99mTc- diethyl-iminodiacetic acid, /sup 99mTc-pyridoxylidene-glutamate, and ¹³¹I-rose bengal in liver transplant patients. (C62, C31). 470122
- IMIPRAMINE:**
carbon 11
 Automated synthesis of ¹¹C-labelled radiopharmaceuticals: imipramine, chlorpromazine, nicotine and methionine. (B13). 486693
- IMMEDIATE RADIATION EFFECTS:**
 See EARLY RADIATION EFFECTS
- IMMUNE REACTIONS:**
 (In vivo reaction to foreign antigen.)
- ascites tumor cells**
 Immune mechanisms in Ehrlich ascites tumor growth in mice. (C14). 487221
- biological radiation effects**
 Allotypic and idiotypic specificities of anti-Salmonella abortus-equi antibodies produced by rabbits subjected to successive irradiations. (C14). 463121
 Bone marrow transplantation. (C14; Mice, gamma radiation). 466109
 Cell-mediated immune response to syngeneic uv induced tumors. I. The presence of tumor associated macrophages and their possible role in the in vitro generation of cytotoxic lymphocytes. (C14). 461059
 Decreased hybrid susceptibility to murine myeloma grafts. (C14; X radiation, cyclophosphamide). 487224
 Effect of total lymphoid irradiation (TLI) on the primary and secondary antibody response to sheep red blood cells. (C14; Mice, x radiation). [Data] 487232
 Effects of radiotherapy on immunity in patients with localized carcinoma of the cervix uteri. (C15, C63, C64; ¹³⁷Cs interstitial therapy + megavoltage external pelvic irradiation). 461069
 Generation of protein-specific and alloantigen-specific suppressor cells following total lymphoid irradiation in mice. (C14). 466102
 GVHD suppression by incubation of bone marrow grafts with anti-t-cell globulin: effect in the canine model and application to clinical bone marrow transplantation. (C14). [Data] 466080
 The immunosuppressive effects of stress induced by local radiotherapy. (C14). 472952
 In vitro generation of nonspecific suppressor cells and their characterization. (C11; X radiation). [Data] 487169
 Methods for induction of permanent graft survival. (C14). 466105
 Modulation of immune response by alloactivated suppressor T cells. (C14; X radiation). [Data] 465975
 Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
 Studies on the mechanism of suppression by T cells in an adoptive secondary response. (C14; Rats, electrons). [Data] 472943
 Total-body irradiation and host reconstitution with stored autologous marrow: an experimental model for the induction of allogeneic unresponsiveness in large mammals. (C14; Dogs). [Data] 466076
 Transplantation of autoimmune potential. IV. Reversal of the NZB autoimmune syndrome by bone marrow transplantation. (C14; X radiation). [Data] 479845
- fast neutrons**
 Relative biological effectiveness of fast neutrons: suppression of immune capacity to Hymenolepis nana in mice. (C14). 463132
- radiosensitivity**
 Functional and morphological recovery of the T-cell compartment in lethally irradiated and reconstituted mice. (C14). [Data] 490961
 High radiosensitivity of induction in contrast to radioresistance of expression of cells mediating delayed-type hypersensitivity during response to sheep red blood cells in mice. (C14, C11). [Data] 490965
- Relationships among differentiated T-cell subpopulations. (C14). [Data] 472986**
- spleen**
 Electronmicroscopic study of gamma irradiated mouse spleen during primary immune response. (C45). 482168
- sublethal irradiation**
 Autoradiographic study of gamma-irradiated mouse spleen during primary immune response. (E14, C45). 482578
- synergism**
 Synergy among rat T cells in the proliferative response to alloantigen. (C11; X Radiation). [Data] 472927
- testing**
 Immunologic assessment of patients with pulmonary metaplasia and neoplasia. (C21; Effects of smoking and uranium mining on immunity). [Data] 473055
- trypanosoma**
 Immunological clearance of ⁷⁵Se-labelled Trypanosoma brucei in mice. (C31). 473123
- IMMUNE TOLERANCE:**
 See IMMUNITY

IMMUNITY:

- acute irradiation**
 Action of pyran co-polymers on immunogenesis in irradiated and unirradiated animals. (C14). 466121
- biological radiation effects**
 Cross-immunity among allogeneic rat tumors by immunization with gamma-irradiated tumor cells. (C14). 482051
 Effects of postoperative radiotherapy for breast cancer on the specific and nonspecific cell-mediated immunity. (C15). 473003
 Effects of radiotherapy on immunity in patients with localized carcinoma of the cervix uteri. (C15, C63, C64; ¹³⁷Cs interstitial therapy + megavoltage external pelvic irradiation). 461069
 Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 487254
 Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
 Preventive central nervous system irradiation in children with acute nonlymphocytic leukemia. (C15; Complications of γ radiation). 469690
- osteosarcomas**
 Effect of radiotherapy on the immunity of osteosarcoma patients. (C45). 480004
- polymers**
 Action of pyran co-polymers on immunogenesis in irradiated and unirradiated animals. (C14). 466121
- radiotherapy**
 Lymphographic and endolymphatic irradiation effects on the indicators of cellular and humoral immunity of rabbits. (C45). 480000
- research programs**
 Research report, for 1977-1978. (C60, C62). 473327
- sublethal irradiation**
 Effects of sublethal irradiation on immune response and histologic structure of central and peripheral lymphoid organs in chicks. (C14). 466127
- IMMUNOGLOBULINS:**
- astatine 211**
 The preparation of astatine labelled proteins using an electrophilic reaction. (B13). 468929
- biological radiation effects**
 Effects of radiotherapy on immunity in patients with localized carcinoma of the cervix uteri. (C15, C63, C64; ¹³⁷Cs interstitial therapy + megavoltage external pelvic irradiation). 461069
 Irradiation effect on the production of homocytotropic and agglutinating antibodies in mice. (C14). 463140
- biosynthesis**
 Immunodeficiency with thymoma: failure to induce Ig production in immunodeficient lymphocytes cocultured with normal T cells. (C11; X radiation). 465910
- cell proliferation**
 Immediate IgA precursor cells in rabbit intestinal lamina propria. (C14). [Data] 463113
- hodgkins disease**
 Cellular immune response and concentrations of serum immunoglobulins in patients with Hodgkin's disease. (C15). 473026
- metabolism**
 Lactoperoxidase catalyzed radioiodination of cell surface immunoglobulin: incorporated radioactivity may not reflect relative cell surface Ig density. (C21; ¹²⁵I). 466232
- peptides**
 Immunochemical studies of the a11otypes of rabbit heavy chain variable regions. (C45). 463330
- quantitative chemical analysis**
 Radioimmunoassay to quantitatively measure cell surface immunoglobulins. (C45). [Data] 482180
- radioassay**
 Thyroid-stimulating immunoglobulins (TSI) and their significance in the pathogenesis of Graves' disease. (C45). 484628
- radioimmunoassay**
 Immunochemical studies of the a11otypes of rabbit heavy chain variable regions. (C45). 463329
 Quantitative studies of Gm a11otypes. (C45). 494380
 Radioimmune double PEG precipitation technique for detecting complexed IgE. (C45). 469882
 Radioimmunoassay to quantitatively measure cell surface immunoglobulins. (C45). [Data] 482180
 Solid-phase immunoassay for human immunoglobulin E: use of ¹²⁵I-labelled protein A as a tracer. (C62; ¹²⁵I tracer technique). [Data] 494530
- IMMUNOLOGY:**
 See also RADIOIMMUNOLOGY
- radiology**
 Immunological consideration for some aspects of radiology. (C11). 490922
- trypanosomiasis**
 Anti-T. Cruzi leucocyte-mediated cytotoxicity in patients with chronic Chagas Disease. (C31). 466252
- IMMUNOSUPPRESSION:**
 HLA-DR-specific suppressor cells after repeated allogeneic sensitizations of human lymphocytes in vitro. (C11; Gamma radiation). 460996
 Identification of an MLC suppressor cell population in acute leukemia. (C11; Gamma radiation). 460952
 In vitro suppression of spontaneous erythrocyte autoimmune responses with lymphocytes activated with concanavalin A. (C11).
- Specific suppression of alloimmune responses by antigen. (C11; UV radiation). [Data] 460990
 465873
- biological radiation effects**
 Antitumor effect of whole-body x-irradiation: possible role of an x-ray-sensitive T suppressor cell population. (C11; Mice). 465895
 Immunological aspect of the electron-beam irradiation. (C11). 476507
- In vitro model for induction of immunologic unresponsiveness to turkey γ -globulin in primed mouse spleen cells. (C11; Gamma radiation). 476523
- Organ culture studies for pancreatic islet transplantation. (C14; Rats, x radiation). 466078
- carcinogenesis**
 The oncogenic potential of three different 7, 12-dimethylbenz (a)anthracene transformed C3H/10T1/2 cell clones at various passages and the importance of the mode of immunosuppression. (C14). 490971
- radiation effects**
 Radiobiological considerations in the use of total-body irradiation for bone-marrow transplantation. (C15, C63; Ablation of bone marrow stem cells prior to transplant in treatment of leukemia). 473020
 Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- IMPACT SHOCK:**
- production**
 Production and utilization of high level and long duration shocks. (E13). 473635
- IMPACT TESTS:**
 See also CHARPY TEST
- IMPERFECTIONS:**
 See DEFECTS
- IMPLOSIONS:**
 See also LASER IMPLOSIONS
- isentropic processes**
 High compression of pellets via a voltage-shaped electron beam. (A13). 464123
- liquids**
 Formation of a viscous boundary layer on the free surface of an imploding rotating liquid cylinder. (A13, A14). 488962
- IMPORTANCE FUNCTION (NEUTRON):**
 See NEUTRON IMPORTANCE FUNCTION
- IMPULSE:**
 See PULSES
- IMPURITIES:**
 (Unwanted constituents only, not for metal and nonmetal additions, or for the concepts covered by TRACE AMOUNTS and INTERFERING ELEMENTS.)
 Impurity removal and recovery processes for fusion reactor fuel streams. (E50, A14). 461899
 Neutron spectroscopy of fast hydrogen diffusion in BCC transition metals. (B23). 486969
- absorption spectroscopy**
 Gamma absorption analysis of substance taking into account effect of heavy impurities. (B11). 478871
- atom transport**
 Investigation of the diffusion of impurity atoms in plasmas by laser fluorescence. (A14). 478120
- chemical radiation effects**
 Radiation chemical transformations of ions of impurity metals in cesium halide monocrystals. (B14). 479206
- diffusion**
 Investigation of the diffusion of impurity atoms in plasmas by laser fluorescence. (A14). 478120
 A modified derivation of the correlation factor in tracer diffusion via vacancy mechanism. (A13). 464183
- evaporation**
 Metal impurity injection into DIVA plasmas with a Q-switched laser beam. (A14). 467727
- ion channeling**
 Lattice location of interstitial foreign atoms by ion channeling employing nuclear reaction. (A13). 481171
- microstructure**
 Ion microanalysis and implantation applied to fusion surface research. (A14). 460013
- multi-element analysis**
 Spectrochemical analysis of impurities in magnesium. (B11). 478814
- neutron activation analysis**
 Evaporation of elements at high temperature as applied to neutron activation analysis of aluminum materials. (B13). 481708
- quantity ratio**
 Neutron activation and substoichiometric determination of platinum with ethyl- α -isonitrosoacetate. (B11). [Data] 493532
- segregation**
 Segregation of impurities and alloyed elements at the surface of molybdenum. (B22). 460733
 Segregation of impurities at the surface of a scandium single crystal. (B22, A13). 484236
- steam turbines**
 Distribution of conditioning agents and impurities in the steam-water circuit of saturated steam turbine plants. (E31, E32, E22). 470646
- surfaces**
 Plasma-surface interactions in tokamaks. (A14, A12). 467621
- transport theory**
 Trace impurity transport code. (A14). 485834

trapping
Hydrogen isotope trapping in materials exposed in PLT. (A14). 478190
Plasma-surface interactions in tokamaks. (A14, A12). 467621

IMPURITY STUDY EXPERIMENT TOKA:
See *ISX TOKAMAK*

IN CORE INSTRUMENTS:
(See also specific instruments plus FUEL ASSEMBLIES or REACTOR CORES.)
Device and method for determining the power distribution in a nuclear reactor fuel assembly. (E24). 473821
Measuring device for a nuclear reactor. (E24). 466640
Position sensor without any mechanical contact. (E24). 484931

acoustic monitoring
Incore monitoring device. (E24). 477182

coaxial cables
Nuclear instrumentation cable end seal. (E35; Patent). 488125

control elements
System for guiding the control rod. (E24). 484932

fission chambers
Shielded neutron detector. (E24, E41). 466646

gamma spectroscopy
A study of the feasibility of using a gas-filled proportional counter as an in-core high energy gamma-ray spectrometer. Final report. (E41). 474120

ionization chambers
Method for continuous functional monitoring of nuclear reaction measuring channels. (E24). 461657

mechanical vibrations
Neutron noise to detect BWR-4 in-core instrument tube vibrations and impacting. (E31). 488034

moderating detectors
In-core neutron detector for nuclear reactor. (E41, E24). 482870

neutron detection
An in-core neutron detector using magnetically focused electrons for nuclear reactors. (E41). 474019

neutron detectors
In-core instrumentation for neutron fluence rate (flux) measurements in power reactors. (E24). 470581

neutron monitors
Incore monitoring device. (E24). 477182

on-line control systems
Process and circuit arrangement of automatic monitoring of safety instrumentation. (E24). 470584

remote handling
Method for replacing an incore monitor. (E22). 470532

remote handling equipment
Take-up device for incore instruments for nuclear power plant. (E22). 473803

self-powered gamma detectors
Self-powered gamma radiation detector. (E24, E41). 470587

self-powered neutron detectors
Neutron measuring device. (E24, E41). 484935

shields
Neutron detector assembly. (E24). 491796

si semiconductor detectors
Method to produce semiconductor detectors. (E41, B24, A13). 461833

specifications
Dynamic surface-pressure instrumentation for rods in parallel flow. (E31, E32; BWR; PWR). 491863
Self-powered in-core neutron detector assembly with uniform perturbation characteristics. (E22, E41; Patent). 480599

transducers
A detector intended to be used in the presence of radiations and a procedure of fabrication. (E42). 463752

tubes
Core measuring instruments. (E24). 491811

IN PILE LOOPS:

helium
The Helium Loop Mol. (E35). 491991

higr type reactors
Fuel elements and fuel element materials. Experimental facilities for fission products lift-off tests. (E33). 473918

iodine 131
A study on analytical methods of radioiodine in a high-temperature, high-pressure water in-pile loop. (B11). 468682

tritium
Hazard and protection from tritium produced in an experimental reactor loop. (C52, E36). 473249

very high temperature
Introduction of elevated temperature components in OGL-1. (E37). 474014

IN UTERO IRRADIATION:
See *PRENATAL IRRADIATION*

IN-CORE FUEL MANAGEMENT:
See *FUEL MANAGEMENT*

IN-SERVICE INSPECTION:

data processing
An automatic ultrasonic equipment for the inservice inspection of the primary circuit of a P.W.R. (E32). 463632

ultrasonic testing
An automatic ultrasonic equipment for the inservice inspection of the primary circuit of a P.W.R. (E32). 463632
A review of the proceedings of the 8th world NDT conference, Annes, September 1976. (E22). 463577

welded joints
Piping cracks in JPDR. (2). (E36). 482810

IN-SITU PROCESSING:
See also *SOLUTION MINING*

IN-VESSEL HEAT EXCHANGERS:

configuration
Integrated system of nuclear reactor and heat exchanger. (E32, E38; PWR type reactors, on board ships). 470674

molten salt reactors
In-vessel heat exchangers device for molten salts nuclear reactor. (E34). 473946

INACTIVATION:

cross sections
The inactivation of cells by accelerated heavy ions of very high LET. (C11, C55). [Data] 461000

frequency dependence
Action spectra for the ultraviolet and visible light inactivation of phage T7: effect of host-cell reactivation. (C12). 461020

radicals
Contrasting oxygen-effects in the inactivation of ribonuclease A by N_3 , $(SCN)_2$ and OH radicals. (C11). 465921

INCIDENTS:
See *ACCIDENTS*

INCINERATORS:
Defense waste cyclone incinerator demonstration program: October - March 1979. (E51). 488330
Mound Laboratory Cyclone Incinerator for radioactive waste. (E51). 474194

operation
Operation of a pilot incinerator for solid waste. (E51). 495194
Operation of low-level radioactive waste incinerator. (E51). 480833

radioactive waste processing
Combustion furnace for wastes. (E51). 488338
Method and combustion furnace for burning waste. (E51). 488339

research programs
Research and development plan for the Slagging Pyrolysis Incinerator. (E51; For TRU waste). 466877

INCLUSIONS:

radiometric analysis
Use of radioactive indicators for the quantitative determination of non-metall inclusions in steel. (D24, D22). 476882

tracer techniques
Use of radioactive indicators for the quantitative determination of non-metall inclusions in steel. (D24, D22). 476882

INCLUSIVE INTERACTIONS:
(The group of all interactions of two particles producing a specific final state.)
Feasibility study of experiments to measure inclusive reactions at large $x/\text{sub F/}$ in ISABELLE's small-angle hall. (E16). 466519
Study of chi production properties at the CERN Intersecting Storage Rings. (A22). 478551

correlation functions
Inclusive three negative pion correlation functions in the central region and Mueller scheme with the Bose-Einstein statistics. (A21). 471977

cross sections
How to include parton transverse momentum in quantum chromodynamics. (A21, A11). 464792
An intranuclear cascade calculation of high-energy heavy-ion interactions. (A34). 478786
On the analytical properties of an inclusive cross section in a scattering angle in the class of ladder models with dynamic symmetry. (A21). 464770

differential cross sections
High energy scattering from a bound nucleon: unitarity and closure approximation. (A33). 478610

elastic scattering
Connection between classic scattering and inclusive $k_{\text{sub}}(T)\text{sup}(2)$ distribution. (A21). 468111

heavy ion reactions
Wide-angle high-energy proton spectra by 800 MeV/A C, Ne, and Ar beams. (A34). 468534

multiple production
Connection between classic scattering and inclusive $k_{\text{sub}}(T)\text{sup}(2)$ distribution. (A21). 468111
Study on multiple production of charged particles in inclusive reactions of negative pions with nuclei at 40 GeV/c pulse. (A22). 483681

photoproduction
Large $p_{\text{sub}}(t)$ inclusive photoproduction and hard scattering model. (A21). 472054

pion plus-proton interactions
Inclusive particle spectra in $p(\pi^+)n$ interactions at 195 GeV/c. (A22). 475670

pionization
Height growth of the inclusive spectra and the average multiplicity in the rapid pionization model. (A21). 462571

quantum chromodynamics
Exclusive processes and the exclusive-inclusive connection in quantum chromodynamics. (A21, A11). 478413

quark model
Large momentum transfer phenomena. (A21). 468082

reviews
Hadron-hadron reactions, high multiplicity. (A22; Review). 472076

scaling laws
Relation between scaling of semi-inclusive and inclusive reactions. (A21). [Data] 464872

spectra
Inclusive particle spectra in $p(\pi^+)n$ interactions at 195 GeV/c. (A22). 475670

INCOLOY ALLOYS:See also *INCOLOY 800*

INCOLOY 800:

| | |
|--|--------|
| age hardening | |
| Development towards a (%) 20Cr-35Ni alloy for use up to 550°C. (B21, B22). | 469039 |
| The effect of aging and cold working on the high-temperature low-cycle fatigue behaviour of Alloy 800H. I. (B22). | 469320 |
| carbides | |
| A review of the structural characteristics of alloy 800. (B22). | 469261 |
| carburization | |
| Corrosion and carburization of INCOLOY 800 in liquid sodium up to 973 K. (B15, B22). | 468988 |
| chemical composition | |
| Proposed changes to Incoloy Alloy 800 and 800H specifications. (B21, B22). | 469040 |
| chemical reactions | |
| The interaction of CsI with high-chromium alloys in the presence of oxygen. (B15). | 493828 |
| compatibility | |
| Reaction of several iron and nickel based alloys with sintered Li ₂ O pellets. (B12). | 468783 |
| corrosion | |
| Creep-rupture testing of Incoloy 800 thin-wall tubing in steam under constant and cyclic load. (B22, B15). | 469229 |
| Effect of fission product interactions on the corrosion and mechanical properties of HTGR alloys. (E33, B15; HTGR). | 461713 |
| High temperature gaseous corrosion of Incoloy 800 in sulfidizing environments. (B15, B22). | 469005 |
| corrosion resistance | |
| Corrosion and carburization of INCOLOY 800 in liquid sodium up to 973 K. (B15, B22). | 468988 |
| Review of high strength corrosion resistant nickel/iron/chromium alloy for boiler tube applications in conventional and nuclear power plant. (B22). [Data] | 462909 |
| Review of the corrosion resistance properties of Alloy 800 in high-temperature steam. (B15, B22). | 468987 |
| creep | |
| Chemical behaviour and mechanical performance in HTR-helium at high temperatures. (B22, B15). | 469138 |
| Creep and fatigue properties of Incoloy 800H in a high-temperature gas-cooled reactor (HTGR) helium environment. (E33, B15). | 461715 |
| Creep and fatigue properties of Incoloy 800H in a high-temperature gas-cooled reactor (HTGR) helium environment. (B22, B15). | 469134 |
| The creep-rupture ductility of alloy 800 tested to 30,000 hours at 500°, 550° and 600°C, with results of hardness tests and metallographic examination. (B22). | 469331 |
| Creep-rupture testing of Incoloy 800 thin-wall tubing in steam under constant and cyclic load. (B22, B15). | 469229 |
| Creep-rupture, creep strength and tensile data on Alloy 800 between 500-800°C. (B22). | 469148 |
| Effect of a helium environment on the mechanical properties of HTGR primary system metals. (E33, B22). | 461714 |
| The effect of age hardening on creep crack growth in alloy 800. (B22). | 469295 |
| The effect of liquid sodium on the creep and rupture properties of Alloy 800. (B22). | 469161 |
| Effects of atmosphere on high-temperature strength of nickel base super alloys. (B15). | 476191 |
| The influence of microstructure (γ' and other phases) on the mechanical properties of alloy 800. (B22). | 469140 |
| Interaction of grain boundary dislocations with precipitates during high temperature creep. (B22). | 481807 |
| Mechanical properties of Alloy 800 above 600°C. (B22). | 469265 |
| Microstructural evolution in several casts of alloy 800 during creep tests. (B22). | 469225 |
| A note on some creep rupture properties of alloy 800 at 525°C. (B22). | 469335 |
| Proposed changes to Incoloy Alloy 800 and 800H specifications. (B21, B22). | 469040 |
| Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). | 460659 |
| Review of the mechanical properties of Alloy 800 at up to 600°C. Effect of chemical composition and structure. (B22). | 469330 |
| Study of tertiary creep instability in several elevated-temperature structural materials. (B22). | 460690 |
| decontamination | |
| Contamination and decontamination of Incoloy 800 samples from the KFA experimental duct of the DRAGON reactor. (B22, C54). | 469285 |
| Mechanical properties of Incoloy 800 from the KFA experimental duct at 700°C and 480 d in the DRAGON reactor, before and after decontamination. (B22, C54). | 469312 |
| ductility | |
| The creep-rupture ductility of alloy 800 tested to 30,000 hours at 500°, 550° and 600°C, with results of hardness tests and metallographic examination. (B22). | 469331 |
| Development towards a (%) 20Cr-35Ni alloy for use up to 550°C. (B21, B22). | 469039 |
| The influence of microstructure (γ' and other phases) on the mechanical properties of alloy 800. (B22). | 469140 |
| Mechanical properties of Alloy 800 above 600°C. (B22). | 469265 |
| Review of the mechanical properties of Alloy 800 at up to 600°C. Effect of chemical composition and structure. (B22). | 469330 |
| Tensile properties of Hastelloy X and Incoloy 800 exposed to air and helium at high temperature. (B15). | 465498 |
| embrittlement | |
| The effect of liquid sodium on the creep and rupture properties of Alloy 800. (B22). | 469161 |

fatigue

| | |
|--|--------|
| A comparison of the low-cycle fatigue behavior of Alloy 800 and Alloy 800H. (B22). | 469303 |
| Correlation of high cycle and low cycle fatigue data for some HTGR structural metals. (E33, B22). | 461729 |
| Correlation of low-cycle and high-cycle fatigue data for solution-annealed Incoloy 800. (B22). | 469296 |
| Creep and fatigue properties of Incoloy 800H in a high-temperature gas-cooled reactor (HTGR) helium environment. (E33, B15). | 461715 |
| Creep and fatigue properties of Incoloy 800H in a high-temperature gas-cooled reactor (HTGR) helium environment. (B22, B15). | 469134 |
| Effect of a helium environment on the mechanical properties of HTGR primary system metals. (E33, B22). | 461714 |
| The effect of aging and cold working on the high-temperature low-cycle fatigue behavior of Alloy 800H. II. (B22). | 469198 |
| The effect of aging and cold working on the high-temperature low-cycle fatigue behaviour of Alloy 800H. I. (B22). | 469320 |
| fracture properties | |
| Creep rupture ductility of alloy 800. (B22). [Data] | 462869 |
| The creep-rupture ductility of alloy 800 tested to 30,000 hours at 500°, 550° and 600°C, with results of hardness tests and metallographic examination. (B22). | 469331 |
| Creep-rupture, creep strength and tensile data on Alloy 800 between 500-800°C. (B22). | 469148 |
| A note on some creep rupture properties of alloy 800 at 525°C. (B22). | 469335 |
| grain size | |
| A review of the structural characteristics of alloy 800. (B22). | 469261 |
| intergranular corrosion | |
| High temperature corrosion and mechanical properties in sodium environment. (B15, B22). | 468989 |
| Review on high-temperature gaseous corrosion and mechanical performance in carburizing and oxidizing environments. (B15, B22). | 468995 |
| The sensitisation and intergranular corrosion of Alloy 800. (B15, B22). | 468997 |
| lifetime | |
| Design codes and lifetime prediction aspects for Alloy 800 for nuclear and non-nuclear applications. (B21, B22). | 469076 |
| mechanical properties | |
| Overview of U.S. efforts directed towards development of mechanical properties data in support of FBR development. (B22, E35). | 460696 |
| Review on the mechanical properties of the alloy 800 up to 600°C. Effect of the chemical composition and structure. (B22). | 462920 |
| microstructure | |
| Effect of aging and cold working on the high-temperature low-cycle fatigue behavior of alloy 800H. Part I. The effect of hardening processes on the initial stress-strain curve. (B22, E33). | 469319 |
| oxidation | |
| Chemical behaviour and mechanical performance in HTR-helium at high temperatures. (B22, B15). | 469138 |
| Effects of atmosphere on high-temperature strength of nickel base super alloys. (B15). | 476191 |
| The high-temperature oxidation of Alloy 800 in low oxygen pressures. (B15, B22). | 469016 |
| Mechanisms of Alloy 800 corrosion in helium. (B15, B22). | 468992 |
| The oxidation of 9CrMo and other steels in 6.9 MPa steam at 748 and 823 K. (B15, E35). | 460621 |
| physical radiation effects | |
| Effects of irradiation and thermal aging upon fatigue-crack growth behavior of reactor pressure boundary materials. (B25, E22; Neutrons). | 460814 |
| precipitation | |
| Intergranular precipitation in austenitic alloys. (B22). | 493945 |
| precipitation hardening | |
| Review of the mechanical properties of Alloy 800 at up to 600°C. Effect of chemical composition and structure. (B22). | 469330 |
| A review of the structural characteristics of alloy 800. (B22). | 469261 |
| quantitative chemical analysis | |
| Accurate determination of sulphur in steels and certain heat-resisting alloys by isotope dilution mass spectrometry. (B11). [Data] | 460431 |
| resistance welding | |
| Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). | 460659 |
| scaling | |
| Creep and fatigue properties of Incoloy 800H in a high-temperature gas-cooled reactor (HTGR) helium environment. (B22, B15). | 469134 |
| The high-temperature oxidation of Alloy 800 in low oxygen pressures. (B15, B22). | 469016 |
| Mechanisms of Alloy 800 corrosion in helium. (B15, B22). | 468992 |
| specifications | |
| Design codes and lifetime prediction aspects for Alloy 800 for nuclear and non-nuclear applications. (B21, B22). | 469076 |
| Design problems in steam generators of high-temperature reactors. (E33). | 470691 |
| Proposed changes to Incoloy Alloy 800 and 800H specifications. (B21, B22). | 469040 |
| steam generators | |
| Design problems in steam generators of high-temperature reactors. (E33). | 470691 |
| stress corrosion | |
| Constant extension rate testing for LMFBR steam generator applications. (E35, B15). | 488145 |
| High temperature corrosion and mechanical properties in sodium environment. (B15, B22). | 468989 |

- The sensitisation and intergranular corrosion of Alloy 800. (B15, B22). 468997
- tensile properties**
- Mechanical properties of Incoloy 800 from the KFA experimental duct at 700°C and 480 d in the DRAGON reactor, before and after decontamination. (B22, C54). 469312
- uses**
- Design codes and lifetime prediction aspects for Alloy 800 for nuclear and non-nuclear applications. (B21, B22). 469076
- Existing and potential applications for alloy 800. (B22, B21). 469139
- weldability**
- Review on welding alloy 800. (B21). 469066
- Weldability of Alloy 800. (B21). 469082
- welded joints**
- The effects of alloying elements and dilution on the hot cracking sensitivity of welds in alloy 800. (B22). 460684
- Transition joint welding development for LMFBR steam generators. (B21, E35). 460669
- yield strength**
- Effect of aging and cold working on the high-temperature low-cycle fatigue behavior of alloy 800H. Part I. The effect of hardening processes on the initial stress-strain curve. (B22, E33). 469319
- INCOMPRESSIBLE FLOW:**
- boundary layers**
- Effects of the hydromagnetic free convection on the oscillatory flow of a viscous incompressible fluid past a porous limiting surface. (A15). 489495
- Unsteady free convection flow past an infinite plate with constant suction and heat sources. (A15). 489610
- natural convection**
- Unsteady free convection flow past an infinite plate with constant suction and heat sources. (A15). 489610
- three-dimensional calculations**
- Three-dimensional flow with neutral points. (A13). 474875
- unsteady flow**
- Effects of the hydromagnetic free convection on the oscillatory flow of a viscous incompressible fluid past a porous limiting surface. (A15). 489495
- INCONEL ALLOYS:**
- See also INCONEL 600; INCONEL 617; INCONEL 625; INCONEL 702; INCONEL 706; INCONEL 713C; INCONEL 718; INCONEL 82
- brazed joints**
- Process of high-temperature vacuum treatment with controlled residual atmosphere. Application to brazing of Inconel. (B22, E32). 493993
- corrosion resistance**
- Compatibility tests of materials for a prototype ceramic melter for defense glass-waste products. (E51, B15). 495202
- Corrosion of Alloy 800H in caustic-contaminated superheated steam at 538°C (1000°F). (E33, B15). 480657
- cracks**
- Metallographic quality control of welding and brazing. (B21, B22). 493897
- physical radiation effects**
- Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- stress corrosion**
- Corrosion of Alloy 800H in caustic-contaminated superheated steam at 538°C (1000°F). (E33, B15). 480657
- weldability**
- Metallographic quality control of welding and brazing. (B21, B22). 493897
- INCONEL 600:**
- compatibility**
- Reaction of several iron and nickel based alloys with sintered Li₂O pellets. (B12). 468783
- corrosion**
- Corrosion experience in B and W NSSs. (B15, E32). 468996
- Materials screening tests for the krypton-85 storage development program. (B16, B15). [Data] 465523
- New Fe-Cr-Mo ferritic stainless steels. (B15). 469013
- corrosion products**
- Structure of PWR primary corrosion products. (E32, B15, B23). 480650
- desorption**
- The effect of bakeout temperature on the electron and ion induced gas desorption coefficients of some technological materials. (B22, E16, A14). [Data] 490552
- fatigue**
- Fatigue growth in piping and rpv steels in simulated BWR water environment. (E31, B22). 488037
- Long-life fatigue test results for two nickel-base structural alloys. (B22, E17). 494000
- forging**
- Closed-die forgings for nuclear applications. (B21, E22). 486837
- hot working**
- Effect of minor elements on hot workability of nickel-base superalloys. (B22). 490645
- physical radiation effects**
- Effects of irradiation and thermal aging upon fatigue-crack growth behavior of reactor pressure boundary materials. (B25, E22; Neutrons). 460814
- Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- quantitative chemical analysis**
- Accurate determination of sulphur in steels and certain heat-resisting alloys by isotope dilution mass spectrometry. (B11). [Data] 460431
- stress corrosion**
- Effect of carbon content and thermal treatment on the SCC behavior of Inconel Alloy 600 steam generator tubing. (B22, E32). 472619
- Influence of thermal treatment on the SCC behavior of inconel alloy 600 at controlled potentials in 10% caustic soda solutions at 315°C. (B15, E32). 472563
- Stress corrosion cracking of steam generator tube materials in sodium hydroxide solutions. (B15, E22). 472562
- Stress corrosion cracking of steam generator tube materials in sodium hydroxide solutions. (B15). 460625
- INCONEL 617:**
- creep**
- Creep behavior of Hastelloy X, 2 1/4 Cr-1 Mo steel, and other alloys in simulated HTGR helium. (B22, E33). 486902
- Effects of atmosphere on high-temperature strength of nickel base super alloys. (B15). 476191
- electron beam welding**
- Analysis of temperature and stress distribution during electron beam welding. (B21). [Data] 481778
- evaporation**
- Mass spectrometric studies of alloys proposed for high temperature reactor systems. II. (B22, B12). 469188
- Thermodynamics of cobalt alloys proposed as materials for high temperature gas-cooled reactor systems. (B22, E33). 481815
- oxidation**
- Effects of atmosphere on high-temperature strength of nickel base super alloys. (B15). 476191
- Investigations on the determination of corrosion kinetics and the structure of corrosion products on high-temperature alloys under low oxygen partial pressures. (B15). 481754
- thermodynamic activity**
- Mass spectrometric studies of alloys proposed for high temperature reactor systems. II. (B22, B12). 469188
- Thermodynamics of cobalt alloys proposed as materials for high temperature gas-cooled reactor systems. (B22, E33). 481815
- vapor pressure**
- Thermodynamics of cobalt alloys proposed as materials for high temperature gas-cooled reactor systems. (B22, E33). 481815
- INCONEL 625:**
- corrosion**
- New Fe-Cr-Mo ferritic stainless steels. (B15). 469013
- creep**
- Status of the minimum-commitment method for creep-rupture applications. (B22). 493992
- ductility**
- Ductility minimum and its reversal with prolonged aging in cobalt- and nickel-base superalloys. (B22, B21). 472641
- fatigue**
- Long-life fatigue test results for two nickel-base structural alloys. (B22, E17). 494000
- performance testing**
- Fabrication of an Inconel pressure vessel. (E22, B22). 470528
- physical radiation effects**
- Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- INCONEL 702:**
- physical radiation effects**
- Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- INCONEL 706:**
- creep**
- Comparison of the in-reactor creep of selected ferritic, solid solution strengthened, and precipitation hardened commercial alloys. (B25). 469451
- physical radiation effects**
- In-reactor creep measurements. (B25, B22, E35). 481886
- Radiation-damage considerations. (B25, A14, E35; Neutrons). 465722
- INCONEL 713C:**
- vickers hardness**
- Data sheet for high temperature Vicker's hardness number. (2). (B22). 481848
- INCONEL 718:**
- blisters**
- Blistering of zirconium, Inconel-718 and stainless steel-316 by 2 MeV helium ions. (B25). 469458
- cracks**
- Fatigue-crack growth in Inconel 718 weldments at elevated temperatures. (B22, E22). 479405
- creep**
- Comparison of the in-reactor creep of selected ferritic, solid solution strengthened, and precipitation hardened commercial alloys. (B25). 469451
- Regression analysis of creep-rupture data: a practical approach. (B22). 493925
- Status of the minimum-commitment method for creep-rupture applications. (B22). 493992
- Study of tertiary creep instability in several elevated-temperature structural materials. (B22). 460690
- desorption**
- The effect of bakeout temperature on the electron and ion induced gas desorption coefficients of some technological materials. (B22, E16, A14). [Data] 490552
- electron beam welding**
- Metallographic study of cracks formation factors in Inconel 718 and waspaloy during welding by electron beam and the tungsten inert gas process. (B21). 481784
- fatigue**
- Effect of heat-treatment on elevated temperature fatigue-crack growth behavior of two heats of Alloy 718. (B22). 460737
- gas tungsten-arc welding**
- Metallographic study of cracks formation factors in Inconel 718 and waspaloy during welding by electron beam and the tungsten inert gas process. (B21). 481784

- lifetime**
Evaluation of materials for EPR power generation. (A14, B25). 471691
- mechanical properties**
Overview of U.S. efforts directed towards development of mechanical properties data in support of FBR development. (B22, E35). 460696
- microstructure**
Effect of heat treatment on the elevated temperature tensile and fracture toughness response of alloy 718. (B22, B21; 427°C and 538°C). 493997
- physical radiation effects**
Blistering of zirconium, Inconel-718 and stainless steel-316 by 2 MeV helium ions. (B25). 469458
Effects of irradiation and thermal aging upon fatigue-crack growth behavior of reactor pressure boundary materials. (B25, E22; Neutrons). 460814
- tensile properties**
Effect of heat treatment on the elevated temperature tensile and fracture toughness response of alloy 718. (B22, B21; 427°C and 538°C). 493997
- welded joints**
Fatigue-crack growth in Inconel 718 weldments at elevated temperatures. (B22, E22). 479405
- INCONEL 82:**
creep
Unusual creep behavior in a commercial nickel-chromium alloy. (B22, E22). 472654
tensile properties
Strain-rate effects on the elevated-temperature behavior of ERNiCr-3 weld metal. (B22, E35). 460725
welded joints
Unusual creep behavior in a commercial nickel-chromium alloy. (B22, E22). 472654
yield strength
Strain-rate effects on the elevated-temperature behavior of ERNiCr-3 weld metal. (B22, E35). 460725
- INDC:**
See INTERNATIONAL NUCLEAR DATA COM
- INDEPENDENT-PARTICLE MODEL:**
See SINGLE-PARTICLE MODEL
- INDEXES:**
(Should be used to index all pieces of literature which are indexes.)
jaeri
Technical publications by JAERI staff from January 1977 to December 1977. (F61). 492375
- INDIA:**
astrophysics
Fundamental research in India in the area of the physical sciences. (A15). 481309
energy sources
Nuclear power for economic development. (F11). 482936
high energy physics
Fundamental research in India in the area of the physical sciences. (A15). 481309
hydrology
Groundwater recharge studies in Maharashtra. Development of isotope techniques and field experience. (B32). [Data] 463001
Uranium isotopic investigations and radiocarbon measurements of river-groundwater systems, Sabarmati Basin, Gujarat, India. (B32). [Data] 460878
neutron reactions
Progress report on nuclear data activities in India - XIII. (A34). 481528
open-cycle mhd generators
Indian experimental MHD pilot plant installation -technical features. (A16). 485959
Properties of seeded combustion products from Ramagudam coal. (A16). 485954
research programs
Department of Atomic Energy [India]: Annual report 1978-79. (F62). 495327
Indian experimental MHD pilot plant installation -technical features. (A16). 485959
Progress report on nuclear data activities in India - XIII. (A34). 481528
- INDIAN OCEAN:**
islands
'Kerguelen: continental fragment or oceanic island': petrology and isotopic geochemistry evidence. (B31). 484341
plankton
Carbon isotope ratio of marine plankton related to surface water masses. (B32). 460885
sediments
Geochemistry and geochronology of sediments from the Bay of Bengal and the equatorial Indian Ocean. (B31). [Data] 494212
- INDIAN ORGANIZATIONS:**
See also BARC
- INDIANA:**
geophysical surveys
Integrated geophysical and geological study of the tectonic framework of the 38th parallel lineament in the vicinity of its intersection with the extension of the New Madrid Fault Zone. (B31). 476406
- INDICATORS:**
See also EOSIN; PYROCATECHOL VIOLET; ROSE BENGAL; XYLENOL ORANGE
- INDIUM:**
absorption spectroscopy
Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
activation analysis
Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
adsorption
AES study of the adsorption of O₂, CO, CO₂, and H₂O on indium. (B22). 476322
compressibility
Isothermal compressibility for various liquid metals by harmonic model potential. (B22). 462905
coster-kronig transitions
L₁-L₂/sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region 37 < or = Z < or = 56. (A12). 477730
critical field
Anisotropy of the stress dependence of critical parameters in uniaxial superconductors. (A17, B22). 475488
desorption
Growth and desorption of indium epitaxial layers investigated by high field microscopy. (B22). 484180
electric conductivity
Resistivity and thermo-electric power of monovalent, divalent, and trivalent liquid metals. (B22). [Data] 462908
electrochemistry
Studying intermediate products of anodic dissolution of indium in the presence of chlorine ions. (B12). 460498
electron diffraction
Superstructures of submonolayer indium films on silicon (111)7 surfaces. (B22). 479410
electronic structure
Relativistic energy bands of indium by RKKRZ method. (A13). [Data] 462175
emission spectroscopy
Direct spectrographic determination of In, La, Nb, and Sr in thorium oxide. (B11). 472397
epitaxy
Growth and desorption of indium epitaxial layers investigated by high field microscopy. (B22). 484180
extraction chromatography
Separation of indium from iron (3) and other elements by cation exchange chromatography in hydrobromic acid-acetone. (B12). 476089
ion exchange
Unusual selectivities of stannic arsenate layers in DMSO-HCl systems: separation of zirconium from numerous metal ions. (B11). 465272
ion exchange chromatography
Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
Separation of indium from iron (3) and other elements by cation exchange chromatography in hydrobromic acid-acetone. (B12). 476089
ion-atom collisions
L₁-L₂/sub 2,3/M/sub 4,5/ Coster-Kronig transition thresholds in the region 37 < or = Z < or = 56. (A12). 477730
josephson junctions
Enhancement of magnetic field in 'window'-type tunnel junctions. (A13). 481087
k conversion
L x-ray yields from double-vacancy states in indium. (A12). [Data] 471352
k shell
Double K-shell vacancies produced in near-symmetric collisions with Z approximately 53. (A12). 488910
l conversion
L x-ray yields from double-vacancy states in indium. (A12). [Data] 471352
liquid metals
On the absence of simple relation between the coefficients of selfdiffusion and toughness in liquid metals. (B22). 494058
magnetic properties
Specific heat of superconducting films of indium and of indium alloyed with magnetic impurities. (B22, A17). 465595
market
The market for indium. (B21). 486856
neutron activation analysis
Extraction and neutron activation determination of trace amounts of indium in air. (D24). 473607
Neutron activation determination of cadmium, indium and zinc in standard samples of rocks. (B11). 490295
neutron reactions
Elastic neutron scattering cross sections of ²⁰⁹Pb and In for incidence energies of E₀ = 6.8 ... 12.0 MeV. (A33). [Data] 468259
pion minus reactions
Emission of low-energy charged particles following negative-pion capture from rest. (A34). 468557
purification
Use of lowest halogenides in technology of pure metals preparation. (B12). 478914
quantitative chemical analysis
Separation of indium from iron (3) and other elements by cation exchange chromatography in hydrobromic acid-acetone. (B12). 476089
raman effect
Raman scattering of light off a superconducting alloy containing paramagnetic impurities. (A17). 481330
solubility
X-ray and optical measurements in the In₂O₃-SnO₂ system. (B12). 475953

- specific heat**
Specific heat of superconducting films of indium and of indium alloyed with magnetic impurities. (B22, A17). 465595
- sputtering**
AES study of the adsorption of O₂, CO, CO₂, and H₂O on indium. (B22). 476322
- superconducting composites**
A granular photo-superconductor. (A17, A13). 489680
- surface tension**
Studies of surface tension and density of supercooled tin, indium, bismuth, lead and gallium. (B22). 494053
- thermoelectric properties**
Resistivity and thermo-electric power of monovalent, divalent, and trivalent liquid metals. (B22). [Data] 462908
- thermoelectricity**
Magnetothermoelectric effect in single crystal aluminum and indium at liquid helium temperatures. (B22). 460753
- transition temperature**
Anisotropy of the stress dependence of critical parameters in uniaxial superconductors. (A17, B22). 475488
- twinning**
Dynamics of twin layer broadening in indium. (B22). 476296
- wires**
Simple cold welding of indium-indium contacts. (B21). 479350
- INDIUM ALLOYS:**
See also INDIUM BASE ALLOYS
- absorption spectra**
Study on exciton absorption spectra in Insub(x)Gasub(1-x)Se single crystals. (A13). 464192
- chemical preparation**
TiInSe₂-TiCeSe₂ system. (B12). 465313
- corrosion**
Corrosion of indium-lead alloys in formic and lactic acids. (B15). 469000
- critical current**
Critical currents of Pb-In/Sn-In multilayered films. (B22). 490624
- critical field**
Critical field measurements of In-Ge superconducting alloys. (A13). 464160
- Experimental investigations on the anisotropy of the upper critical field in type II superconductors. (A17, B22). 475487
- crystal growth**
Directed crystallization and structure of InSb films on sapphire substrates. (B22). 476306
- Stability of phase contact area during crystallization of indium antimonide thin layers. (B12). 465338
- crystal structure**
Electronic behavior in alloys: Gold-non-transition-metal intermetallics. (B22). [Data] 465649
- crystallization**
Calculation of growth kinetics of indium antimonide layers out of supercooled melts. (B21). 469063
- cyclotron resonance**
Magnetoelectricity and cyclotron resonance in inversion layers on p-InSb. (B22). 476256
- elasticity**
Temperature dependence of Akhiezer loss in indium antimonide. (B22). 490613
- electrodes**
Polarographic investigation of dicyan ethyl-mercury on dropping electrode of indium-mercury alloy. (B12). 479011
- electronic structure**
On the resonant excitation of electron subbands on the surface of InSb. (B22). 476247
- epitaxy**
A study of phase equilibria and heterojunctions in Ga-In-As-Sb quaternary system. (B22). 469153
- films**
Preparation of InSb-LiNbO₃ laminar structures and investigation of their properties. (B22, B21). 476331
- formation heat**
Thermodynamic examination of cobalt-indium and nickel-indium alloy systems. (B22). 484242
- intermetallic compounds**
A new representative of the γ -Pu structure type: the crystal structure of β (Hgsb(0.80)Insb(0.20)). (B22). 484223
- knight shift**
The knight shift in liquid LiCd and LiIn alloys. (A13). 477914
- magnetic field configurations**
Correlations between flux line lattice and crystal lattice. (A17). 475486
- magnetic flux**
Flux pinning and flux flow studies in superconductors using flux flow noise techniques. Progress report, April 1, 1978 - December 30, 1978. (A17, B22). 478383
- neutron absorbers**
Absorbant materials. (B24, B25). [Data] 472724
- orthorhombic lattices**
A new representative of the γ -Pu structure type: the crystal structure of β (Hgsb(0.80)Insb(0.20)). (B22). 484223
- phase diagrams**
The In-Sn phase diagram and superconductivity of In₃Sn. (B22, A17). 472624
- phase studies**
Vibration spectra of alloys of the In-Te system and its phase state diagram. (B22). 479452
- photoemission**
Electronic behavior in alloys: Gold-non-transition-metal intermetallics. (B22). [Data] 465649
- physical radiation effects**
Irradiation effects in high-purity InSb. (B25). [Data] 469445
Radiation technology of the preparation of high-ohmic n-InSb. (B25, D23). 476396
- semiconductor materials**
Acceptor action of plastic bending in n-InSb single crystals. (B22). 493977
- superconducting junctions**
Study of subharmonic gap structures in both symmetric and asymmetric superconducting tunnel junctions based on oxidized PbIn alloy electrodes. (A17). 471955
- superconductivity**
Critical currents of Pb-In/Sn-In multilayered films. (B22). 490624
- superlattices**
Correlations between flux line lattice and crystal lattice. (A17). 475486
- thermoelectric properties**
Thermo-emf of cadmium-zinc and indium-zinc alloys. (B22). 493988
- transition temperature**
Influence of alloying on the superconducting transition temperature of La₃In. (B22, A17). 472638
Superconducting transition temperature and electronic properties of indium alloys. (B22). 476334
- vitrification**
Application of the empirical theory of vitrification to the calculation of vitrification region boundaries in chalcogenide systems and the coordination of melts. (B12, B22). 475939
Glasses in the arsenic-tellurium-indium system. (B12). 493586
- wettability**
Experimental study of magnetic field effect on the kinetics of gallium, indium and indium alloys flowing on copper surface. (B22). 486941
- INDIUM ARSENIDES:**
- absorption spectra**
Study of p-type indium arsenide by optical methods. (A13). 485604
- annealing**
Carrier introduction rate and annealing in electron-irradiated n-type InAs. (A13). [Data] 481124
- anodization**
Chemical analysis of anodic oxidic films on indium arsenide. (B11). 475909
- carrier density**
Carrier introduction rate and annealing in electron-irradiated n-type InAs. (A13). [Data] 481124
- cathodoluminescence**
Burstein-Moss effect and near-band-edge luminescence spectrum of highly doped indium arsenide. (A13). 474909
- internal friction**
Study on point defects in A³B⁴ compounds by the internal friction method. (A13). 464222
- mass transfer**
Comparative analysis of rates of semiconductor compounds A³B³ transfer by water vapors in a small gap. (B12). 479072
- nuclear magnetic resonance**
Quadrupole interactions in A³B³ semiconductor compounds. (A13). 474688
- physical radiation effects**
Carrier introduction rate and annealing in electron-irradiated n-type InAs. (B25). 494142
- point defects**
Defect formation in indium arsenide monocrystals highly doped with donor impurities of the group 6 elements. (B22; InAs monocrystals were alloyed with Te, Se, and S). 493930
- semiconductor materials**
Interaction between Cd and Te in InAs. (B22). 493999
- vapor pressure**
Investigation into phase equilibrium in InAs-InP system. (B12). 476097
- INDIUM BASE ALLOYS:**
- brillouin zones**
Anomalies in the enthalpy of freezing in alpha-phase indium-lead, due to Brillouin-zone effects. (B22). 476298
- corrosion**
Regularities of selective solution of indium-zinc alloy. (B15). 460628
- critical field**
Ideal metastability fields and field penetration in type-I and type-II superconducting InBi single spheres. (B22, A17). 481836
- crystal structure**
Systematical trends of nuclear quadrupolar relaxation in metallic liquid alloys of indium. (B25). 481888
- entropy**
Latent heats and entropies of fusion in soft mode indium alloys. (A13). [Data] 467432
- epitaxy**
Formation of intermediate layer during epitaxial growing of Insub(1-x)Gasub(x)P solid solutions on gallium arsenide substrates. (B12). 493564
- Investigation of epitaxial layers of Insub(x)Gasub(1-x)As with phosphorus prepared by the liquid-phase epitaxy method. (B12). 468799
- Minimization of dislocation density in epitaxial layers of Insub(z)Gasub(1-z)As during growing of smooth heterotransitions Insub(x)Gasub(1-x)Assub(y)Psub(1-y)-Insub(z)Gasub(1-z)As on GaAs substrates by the liquid-phase epitaxy method. (B12). 468703
- freezing**
Anomalies in the enthalpy of freezing in alpha-phase indium-lead, due to Brillouin-zone effects. (B22). 476298

- fusion heat**
Latent heats and entropies of fusion in soft mode indium alloys. (A13). [Data] 467432
- intermetallic compounds**
Pulse high magnetic field magnetoresistance measurements in In_3Sn alloys. (B22). 484263
- magnetic properties**
Specific heat of superconducting films of indium and of indium alloyed with magnetic impurities. (B22, A17). 465595
- magnetoresistance**
Pulse high magnetic field magnetoresistance measurements in In_3Sn alloys. (B22). 484263
- phase diagrams**
The phase diagram for In-rich In-Bi alloys. (B22). 472631
- solubility**
On peculiarities of solubility of In-Pb, In-Zn alloys in acidic media. (B15). 493844
- specific heat**
Specific heat of superconducting films of indium and of indium alloyed with magnetic impurities. (B22, A17). 465595
- superconductivity**
Ideal metastability fields and field penetration in type-I and type-II superconducting InBi single spheres. (B22, A17). 481836
- INDIUM BROMIDES:**
- mixing heat**
Mixing enthalpies of alkylaluminum compounds with some metal halides. (B12). 490416
- x-ray diffraction**
Halo-Elpasolites. Pt. 4. (B12, A13). 468809
- INDIUM CHLORIDES:**
- chemical reactions**
On complexing in binary chloride systems. (B12). 475935
- infrared spectra**
Artificial effects in infrared spectra of AlCl_3 , GaCl_3 and InCl_3 solutions in acetonitrile. (B12). 493616
- radiopharmaceuticals**
Diffuse pulmonary uptake of indium-111 chloride in idiopathic myelofibrosis. (C62, C21). 494566
- raman spectra**
Resonance Raman spectra of metal halide vapor complexes. (B12). 460514
- INDIUM COMPLEXES:**
- absorption spectra**
Spectroscopic properties of $\text{Al}(3)$, $\text{Ga}(3)$ and $\text{In}(3)$ complexes with quercetin. (B12). 493640
- chemical preparation**
Aniline and quinoline compounds of mixed complex haloacids of indium(III) with thiocyanate. (B12). 478945
- Complexing of indium and gallium with 4-(2-pyridylazo)-resorcinol and monocarboxylic acids. (B11). 483977
- Interaction of indium(3) with NTA and rhodanide ion in aqueous solutions. (B12). 493588
- crystal structure**
Crystal and molecular structures of $\text{In}(\text{CH}_3\text{COO})_3$, 2,2'-dipyridine and $\text{In}(\text{CH}_3\text{COO})_3$, 1,10-phenanthroline - compounds of indium with coordination number 8. (B12). [Data] 465382
- On structure of oxocomplexes of rare earths, gallium and indium. (B12). 465343
- infrared spectra**
Infrared absorption spectra of selenate compounds of indium (3). (B12). 493630
- Integral intensities of thiocyanate groups and the type of their coordination in metal complexes with pyrazolone derivatives. (B12). 493745
- photometry**
Extraction of gallium and indium complexes with gallion by tri-n-octylamine. (B11). 475901
- polarography**
Influence of medium acidity on indium polarographic behaviour in the presence of 1M potassium chloride. (B12). 493718
- Polarographic study of In(III) -phthalate system. (B12). 460475
- potentiometry**
Some mixed-ligand chelates of In(III) . (B12). 460434
- solvent extraction**
Effect of solvent nature on behaviour of microelements during indium extraction from bromide solutions. (B12). 476081
- Extraction of indium thenoyltrifluoroacetate from perchlorate and chloride solutions. (B12). 493613
- Extraction of indium thenoyltrifluoroacetate from nitrate solutions. (B12). 476109
- Extraction of indium and gallium complexes with 4-(2-pyridylazo)-resorcinol by caproic acid chloroform solution. (B11). 468657
- Investigation of chemism of reactions between multivalent element ions and organic reagents. (B12). 493670
- On coextraction of thallium with iron, gallium, and indium during their separation by triocetylamine from hydrochloric acid solution. (B11). 475867
- Selective extraction-photometric determination of indium with 1-(2-pyridylazo)-2-naphthol. (B11). 490308
- spectrophotometry**
Extraction-spectrophotometric determination of indium with salicylideneamino-2-thiophenol. (B11). 472341
- INDIUM COMPOUNDS:**
See also INDIUM ARSENIDES; INDIUM BROMIDES; INDIUM CHLORIDES; INDIUM FLUORIDES; INDIUM IODIDES; INDIUM OXIDES; INDIUM PHOSPHIDES; INDIUM SELENIDES; INDIUM SULFATES; INDIUM SULFIDES; INDIUM TELLURIDES
- absorption spectroscopy**
Atomic absorption method of layer-by-layer determination of oxidized layers composition of indium antimonide. (B11). 486549
- Indium and thallium determination in semiconductor silicon by nonflame atomic absorption spectrophotometry. (B11). 486557
- acoustic nmr**
Uncoherent phonons at the resonance interaction of acoustic waves with the spin-system. (A13). 477882
- antimonides**
Coherent microwave emission from a solid state plasma in a high magnetic field. (A13). 483261
- brillouin zones**
Spin-dependent wave functions at some points of the Brillouin zone of InSb . (A13). 474767
- chemical preparation**
Indium monohalogenides and their use in indium hydrometallurgical production. (B12). 479040
- Mixed aluminium, gallium and indium tellurites. (B12). 478990
- Preparation and basic physico-chemical properties of alkali metal indates and thioindates. (B12). 475993
- chemical reaction kinetics**
Investigation into rapid electrochemical reaction kinetics by the method of high-frequency polarography. (B12). 479066
- chemical reactions**
On the interaction between indium (3) and molybdenum (6) in aqueous solutions. (B12). 493733
- crystal defects**
Effect on electron irradiation intensity on defect formation in indium antimonide. (A13). 474912
- crystal growth**
Growing of indium antimonide reinforced monocrystals by the Stepanov method. (B22). 469256
- crystal structure**
On the structural belonging of monoclinic high-pressure modification of indium antimonate InSbO_4 . (B12). 493736
- electric conductivity**
Electric and photoelectric properties of p-n junctions in InSb produced by zinc ion implantation accompanied by diffusion spreading. (A13). 474716
- Evidence of surface conduction on magnetically frozen-out InSb . (A13, B22). 474916
- The influence of an external magnetic field on the recombination radiation and current-voltage characteristics of indium antimonide under impact ionization conditions. (A13). 474718
- Magnetoconcentrational effects in an improper semiconductor with essentially different electron and hole mobilities. (A13). 467404
- electrolysis**
Investigation of behaviour and determination of indium, cadmium, thallium, lead and tin by the method of inverse alternating current voltammetry. (B12). 478961
- electron cyclotron-resonance**
Cyclotron resonance of electrons in InSb at hydrostatic pressure. (A13). 481120
- electrons**
Monte-Carlo calculations of kinetic characteristics and distribution functions of hot electrons in indium antimonide. (A13). 492585
- entropy**
Standart entropy of ternary compounds of $\text{A}^2\text{C}^2\text{B}_4$ type. (B12). 476099
- hall effect**
Magnetic freezing of electrons on deep levels of Cr in InSb . (A13). 474814
- Measurement of the Hall effect in semiconductors at supersonic frequencies. (A13). 464206
- impurities**
Radiation chemical transformations of ions of impurity metals in cesium halide monocrystals. (B14). 479206
- internal friction**
Study on point defects in A^3B^4 compounds by the internal friction method. (A13). 464222
- iron ions**
Zero-field splitting of the ground state s ion in calcite type borates. (A13). 481083
- magnetic fields**
The influence of an external magnetic field on the recombination radiation and current-voltage characteristics of indium antimonide under impact ionization conditions. (A13). 474718
- magnetic resonance**
Magnetophonon resonance on holes in InSb . (A13). 485641
- n-type conductors**
Coherent microwave emission from a solid state plasma in a high magnetic field. (A13). 483261
- nuclear magnetic resonance**
Quadrupole interactions in A^3B^4 semiconductor compounds. (A13). 474688
- Uncoherent phonons at the resonance interaction of acoustic waves with the spin-system. (A13). 477882
- oxidation**
Chemical properties of indium halide systems. (B12). 478929
- phonons**
Magnetophonon resonance on holes in InSb . (A13). 485641
- photoconductivity**
Nature of submillimeter photoconductivity in n- InSb . (A13). 474762
- photoluminescence**
Photoluminescence of doped n-type indium arsenide and indium antimonide crystals. (A13). 462186
- physical radiation effects**
Effect on electron irradiation intensity on defect formation in indium antimonide. (A13). 474912
- Irradiation effects in high-purity InSb . (B25). [Data] 469445
- polarography**
Electrocatalytic effect of aliphatic carboxylic acids in indium (3) polarography. (B12). 479062

- positrons**
Positron annihilation in A³B⁵ semiconductor compound monocrystals. (A13). 464198
- quantitative chemical analysis**
Extraction of indium and gallium complexes with 4-(2-pyridylazo)-resorcinol by caproic acid chloroform solution. (B11). 468657
Indium In. (B11). 468612
Use of anodic oxidation for layer-by-layer chemical-spectral analysis of gallium arsenide and indium antimonide. (B11). 486545
- raman effect**
Resonant magneto-Raman scattering in polar semiconductors. (A13). 474880
- reduction**
Chemical properties of indium halide systems. (B12). 478929
- sound waves**
Parametric instability of acoustic waves in transversely magnetised piezoelectric semiconductors. (A13). 481098
- spectrophotometry**
Investigation into conditions of spectrophotometric determination of sum of heavy metals in rubidium and cesium salts with preliminary crystallization concentrating. (B11). 493480
- structural chemical analysis**
Single-crystal X-ray analysis of compounds with a covalent metal-metal bond. 7. (B12). [Data] 465319
- thermal analysis**
Thermographical investigation of organometallic compounds. (B12). 476092
- thermoelectric properties**
Thermoelectric properties of indium antimonide under high pressure up to 35 kbar. (B22). [Data] 481852
- ultrasonic waves**
Ultrasound modulation in n-InSb. (A13). 464185
- viscosity**
Viscosity and inversion concentration of aqueous solutions of the periodic system group 3 metal perchlorates. (B12, B13). 479051
- wave functions**
Spin-dependent wave functions at some points of the Brillouin zone of InSb. (A13). 474767
- INDIUM FLUORIDES:**
- chemical shift**
Chemical shift of fluorine nuclear magnetic resonance in hydrated indium fluoride. (B12). 490329
- crystallography**
Peculiarities of crystallochemistry of fluorine and oxygen in hydrated fluorides. (B12; BF₃·xH₂O, InF₃·xH₂O, ZrF₄·xH₂O, HfF₄·xH₂O, UF₆·x.5H₂O). 493557
- INDIUM IODIDES:**
- oxidation**
Effect of different factors on disproportionation of indium monohalides. (B12). 479052
- reduction**
Effect of different factors on disproportionation of indium monohalides. (B12). 479052
- INDIUM IONS:**
- ion implantation**
Laser annealing of indium-implanted silicon. (A13). 471488
- INDIUM ISOTOPES:**
See also INDIUM 109; INDIUM 110; INDIUM 111; INDIUM 112; INDIUM 113; INDIUM 114; INDIUM 115; INDIUM 116; INDIUM 117; INDIUM 119; INDIUM 121
- INDIUM OXIDES:**
- charge carriers**
X-ray and optical measurements in the In₂O₃-SnO₂ system. (B12). 475953
- chemical vapor deposition**
A method for the uniform chemical vapor deposition of tin-doped indium sesquioxide films on cylindrical substrates. (B24). 472729
- chlorination**
Indium oxide chlorination. (B12). 478934
- coatings**
Ion plating onto plastics. (A13). 488941
- films**
Preparation of tin-doped indium oxide thin films by thermal decomposition of metal octanoates. (B12). 465413
- sample preparation**
Preparation of tin-doped indium oxide thin films by thermal decomposition of metal octanoates. (B12). 465413
- sputtering**
Properties of Sn-doped indium oxide prepared by high rate and low temperature RF sputtering. (A13). [Data] 481105
Sputtering technique for the deposition of indium oxide. (A13). 481095
- INDIUM PHOSPHIDES:**
- absorption spectra**
Electrical and optical properties of indium phosphides alloyed with iron. (A13). 464117
- chemical state**
On the quantitative characterization of chemical disorder of Insub(1-x)Gasub(x)P from wavelength-modulated no-phonon absorption. (A13). 462243
- crystal defects**
A review of deep-level defects in III-V semiconductors. (B25). 494149
- crystal growth**
Czochralski method for growing of indium phosphide monocrystals. (B12). 468733
- electric contacts**
Ohmic contacts on indium phosphide. (B12, B24). 462750
- electron beams**
Enhancement-mode ion-implanted InP F.E.T.S. (B25, A13). 462943
- excitons**
Effect of uniaxial stress on free and bismuth-bound excitons in InP. (B12). 476104
- hall effect**
Electrical and optical properties of indium phosphides alloyed with iron. (A13). 464117
- ion implantation**
Enhancement-mode ion-implanted InP F.E.T.S. (B25, A13). 462943
- microhardness**
Study of the mechanical properties of indium phosphide epitaxy layers. (B22). 490635
- nuclear magnetic resonance**
Quadrupole interactions in A³B⁵ semiconductor compounds. (A13). 474688
- oxidation**
Quadrupole structure of NMR line in tellurium-doped indium phosphide. (A13). 492558
- phonons**
Kinetics of hydrothermal oxidation of GaAs and InP. (B12). 493685
- radiolysis**
Non-isodisplacement of P atoms in long-wavelength optical phonons in Insub(1-x)Gasub(x)P. (A13). 474794
- semiconductor diodes**
Mechanism of optically induced degradation in InP/In/sub 1-x/Ga/sub x/As/sub y/P/sub 1-y/ heterostructures. (B25). 479547
- tellurium additions**
Deep levels in Fe-doped InP. (B12). 475938
- vapor pressure**
Quadrupole structure of NMR line in tellurium-doped indium phosphide. (A13). 492558
Investigation into phase equilibrium in InAs-InP system. (B12). 476097
- INDIUM SELENIDES:**
- chemical reactions**
Interaction in the In₂Se₃-I₂ system. (B12). 478951
Thermodynamic investigation of equilibrium in the InSe-Br₂ system. (B12). 468740
- electric conductivity**
Effect of small amounts of Cu₂S on electrophysical properties of In₂Se₃. (B22). 465679
Electrical and optical properties of TIInSe₂ single crystals. (B12). 475921
- infrared spectra**
Optical phonons in layer TIInSe₂ single crystals. (B22). 476267
- lattice parameters**
Lattice constants and band-gap variations of the pentenary semiconductor system Cu/sub 1-y/Ag/sub y/InS/sub (21-x)/Se/sub 2x/. (B24). 479515
- phase diagrams**
X-ray study of CdGasub(2(1-x))Insub(2x)Sesub(4) solid solutions. (A13). 489030
- photoluminescence**
Study of the state diagrams of A²-B³-C⁶ ternary systems. (B12). 490337
- raman spectra**
The nature of energy bands of Asup(III)Bsub(VI) layered crystals near the absorption edge. (A12). [Data] 485404
- thermal conductivity**
Light scattering in TIInSe₂ single crystals. (B22). 476240
Optical phonons in layer TIInSe₂ single crystals. (B22). 476267
- vapor pressure**
Thermal conductivity in In-Se-Te alloys. (B22). 462895
Vapor pressure of solid sesquiselenides of gallium and indium. (B12). 468882
- x-ray diffraction**
X-ray investigation of needle-like crystals of CdIn₂Se₄. (B24). 465711
- INDIUM SULFATES:**
- chemical preparation**
On double chalcogenates and chalcogenites of aluminium, gallium and indium. (B12). 479056
- INDIUM SULFIDES:**
- crystal defects**
The defects in crystals of some semiconductor compounds with spinel structure. (B12). 490375
The defects in crystals of some semiconductor compounds with spinel structure. (B12). 490375
The defects in crystals of some semiconductor compounds with spinel structure. (B12). 490375
The defects in crystals of some semiconductor compounds with spinel structure. (B12). 490375
- lattice parameters**
Lattice constants and band-gap variations of the pentenary semiconductor system Cu/sub 1-y/Ag/sub y/InS/sub (21-x)/Se/sub 2x/. (B24). 479515
- leaching**
Extraction of rare and scattered elements from converter dust of metallurgical work. (B12). 479032
- photoconductivity**
Interaction in the Na₂S-In₂S₃ system. (B12). 465380
- transmission**
Photoconductivity and trap distribution in CdIn₂S₄. (B12). 462688
- INDIUM TELLURIDES:**
- carrier density**
Saturation of absorption in ZnIn₂S₄ monocrystals. (B12). 493603
- Ohmic contacts**
On electric inactivity of impurities in In₂Te₃ type semiconductor compounds. (B12). 493585

- chemical reactions**
Physicochemical study into interaction of tellurides of indium and gallium with their halogenides. (B12). 468711
- crystal growth**
Investigation into $\text{Pbsub}(x)\text{Snsub}(1-x)\text{Se}$ solid solutions and InPbTe_2 ternary compounds. (B12). 468789
- crystal-phase transformations**
The ordered state of In_2Te_3 in its relation to the transition state. (B22). 462856
- photoconductivity**
Kinetics of photoconductivity of a defective In_2Te_3 semiconductor. (A13). 492556
- thermal conductivity**
Thermal conductivity in In-Se-Te alloys. (B22). 462895
- INDIUM 109:**
- energy levels**
Experimental study of the ^{109}In nuclear states. (A34). 472304
- INDIUM 110:**
- energy levels**
Proton-neutron interaction in odd-odd indium nuclei. (A34, A22; Angular distribution, level structure, pairing-plus-quadrupole model, multiplets). 460333
- INDIUM 111:**
- blood platelets**
Labelling of human and rabbit platelets with $^{111}\text{Indium-oxine}$ complex. (C31). 494355
- cell killing**
Indium-111 labeling of leukocytes: a detrimental effect on neutrophil and lymphocyte function and an improved method of cell labelling. (C21, C62, B13). 469786
- distribution**
Comparative biokinetics of radiogallium and radioindium in mice. (C21, C62). [Data] 473100
- isomeric nuclei**
Excitation functions and isomeric relations for the $\text{sup}(111)\text{Cd}(\text{p},\text{n})\text{sup}(111\text{mg})\text{In}$ and $\text{sup}(113)\text{Cd}(\text{p},\text{n})\text{sup}(113\text{m})\text{In}$ reactions. (A34). 493450
- labelling**
 $\text{sup}(89\text{mg})\text{Zr}$ and $\text{sup}(111\text{mg})\text{In}$ isomer yields in the (α,n) and $(\alpha,2\text{n})$ reactions versus alpha particle energy. (A34). 493353
- Labelling of human and rabbit platelets with $^{111}\text{Indium-oxine}$ complex. (C31). 494355
- mutagenesis**
Indium-111 labeling of leukocytes: a detrimental effect on neutrophil and lymphocyte function and an improved method of cell labelling. (C21, C62, B13). 469786
- radiation effects**
Interaction between recoil-implanted ^{111}In impurities and radiation damage in silver. (A13). 459831
- radiochemistry**
Indium-111 labeling of leukocytes: a detrimental effect on neutrophil and lymphocyte function and an improved method of cell labelling. (C21, C62, B13). 469786
- radiopharmaceuticals**
Diffuse pulmonary uptake of indium-111 chloride in idiopathic myelofibrosis. (C62, C21). 494566
- scintiscanning**
 ^{111}In -DTPA cerebrospinal fluid transit in research on the meningeal spread of acute leukemias and malignant lymphomas. (C62). 491325
- Circulation of the medullary cerebrospinal fluid. Comparative study of various tracers. (C62). 491304
- Contribution of isotopic data in cerebrospinal fluid (CSF) studies. (C62). 491300
- Contribution of the scintigraphy in the study of the hemopoietic bone marrow. (C45). 463335
- Demonstration of the infiltration of the carcinoma of uterine cervix by using ^{111}In -bleomycin scintigraphy. (C62). 473445
- Diffuse pulmonary uptake of indium-111 chloride in idiopathic myelofibrosis. (C62, C21). 494566
- Double medullary scintigraphy using $\text{sup}(99\text{m})\text{Tc}$ -colloids and ^{111}In -transferrin in myeloid splenomegaly. (C62). 491314
- Imaging experimental infective endocarditis with indium-111-labeled blood cellular components. (C62, C21; Rabbits, aortic valve). 487730
- Metrizamide and radionuclide cisternography in communicating hydrocephalus. (C62, C61, C31). 494523
- Modified method for application of colloid ^{111}In with stable carrier to study functions and scintiscanning of liver and spleen. (C62). 482392
- Use of scintigraphy and cine-angio-scintigraphy to diagnose thrombosis of the superficial intracranial vein sinuses. (C62). 491303
- INDIUM 112:**
- energy levels**
Proton-neutron interaction in odd-odd indium nuclei. (A34, A22; Angular distribution, level structure, pairing-plus-quadrupole model, multiplets). 460333
- INDIUM 113:**
- blood flow**
The measurement of blood flow in the cerebral hemispheres using a radioactive tracer. (C31). 476627
- cardiovascular diseases**
Clinical evaluation of Proscillaridin-A with radioisotopes. (C62). 484733
- distribution**
Comparative biokinetics of radiogallium and radioindium in mice. (C21, C62). [Data] 473100
- isomeric nuclei**
Excitation functions and isomeric relations for the $\text{sup}(111)\text{Cd}(\text{p},\text{n})\text{sup}(111\text{mg})\text{In}$ and $\text{sup}(113)\text{Cd}(\text{p},\text{n})\text{sup}(113\text{m})\text{In}$ reactions. (A34). 493450
- kidneys**
Radioisotope applications in nephrology. (C62, C61). 482422
- radioisotope generators**
Short-lived radionuclide generators. (D13). 476829
- scintiscanning**
Studies on measuring the placental blood flow. (C62). 470088
- tracer techniques**
Clinical evaluation of Proscillaridin-A with radioisotopes. (C62). 484733
- The measurement of blood flow in the cerebral hemispheres using a radioactive tracer. (C31). 476627
- veterinary medicine**
Measurement of glomerular filtration in dogs by ^{51}Cr -EDTA and ^{113}In -DTPA. (C31). [Data] 461131
- INDIUM 113 TARGET:**
- excitation**
Excitation of the ^{113}In , ^{113}In and ^{113}Cd by action of photonless annihilation of positrons. (A34, A33). 493463
- neutron reactions**
Isomeric cross section ratios for the $(\text{n},2\text{n})$ reactions on ^{45}Sc and ^{113}In . (A34). [Data] 493405
- Measurement and calculation of average activation cross sections in the spontaneous fission neutron field of ^{252}Cf . (A34). 460346
- pion minus reactions**
Emission of low energy charged particles following nuclear pion capture. (A34; Rates). 460360
- positron reactions**
Excitation of the ^{113}In , ^{113}In and ^{113}Cd by action of photonless annihilation of positrons. (A34, A33). 493463
- INDIUM 114:**
- cross sections**
Cross sections for the formation of $\text{sup}(114\text{m})\text{In}$ and $\text{sup}(116\text{m})\text{In}$ on bombardment of cadmium by deuterons. (A34). [Data] 478757
- diffusion**
Impurity diffusion of ^{114}In in Cu. (B12). 478976
- energy levels**
Proton-neutron interaction in odd-odd indium nuclei. (A34, A22; Angular distribution, level structure, pairing-plus-quadrupole model, multiplets). 460333
- INDIUM 115:**
- beta-minus decay**
Beta spectrum of ^{115}In . (A34). 475838
- cross sections**
Measurement of neutron capture cross sections with Fe-filtered beam. (A34). [Data] 475859
- isomeric nuclei**
Chemical effect on a probability of $\text{sup}(115\text{m})\text{In}$ decay. (A34). 493434
- isomeric transitions**
Nuclear excitation of ^{115}In by positron annihilation with K-shell electrons. (A34). 468577
- knight shift**
Temperature and concentration dependence of the knight shift of ^{115}In in liquid In-Hg alloys. (A13, B22). 474868
- nuclear decay**
Chemical effect on a probability of $\text{sup}(115\text{m})\text{In}$ decay. (A34). 493434
- INDIUM 115 TARGET:**
- alpha reactions**
g-factor of the $19/2^-$ isomer in ^{115}Sb . (A34). 475804
- excitation**
Excitation of the ^{115}In , ^{115}In and ^{115}Cd by action of photonless annihilation of positrons. (A34, A33). 493463
- fluorine 19 reactions**
 γ -multiplicities in (HI,xn) -reactions. (A34). 465140
- inelastic scattering**
Absolute measurements of some neutron activation cross sections in ^{27}Al , ^{115}In and ^{197}Au at 14.9 MeV. (A31). [Data] 462588
- neutrino reactions**
Beta spectrum of ^{115}In . (A34). 475838
- neutron reactions**
Measurement and calculation of average activation cross sections in the spontaneous fission neutron field of ^{252}Cf . (A34). 460346
- positron reactions**
Excitation of the ^{115}In , ^{115}In and ^{115}Cd by action of photonless annihilation of positrons. (A34, A33). 493463
- proton reactions**
Investigation of the reaction (p,n) on ^{115}In . (A34). [Data] 481580
- Neutron spectra from decay of isobar-analog resonances in the $^{109}\text{Ag}(\text{p},\text{n})^{109}\text{Cd}$ and $^{115}\text{In}(\text{p},\text{n})^{115}\text{Sn}$ reactions. (A34). 493432
- Neutron spectra from (p,n) reactions on ^{115}Cd , ^{115}In . (A34). [Data] 481536
- INDIUM 116:**
- cross sections**
Cross sections for the formation of $\text{sup}(114\text{m})\text{In}$ and $\text{sup}(116\text{m})\text{In}$ on bombardment of cadmium by deuterons. (A34). [Data] 478757
- INDIUM 117:**
- isomeric nuclei**
Isomeric ratios in deuteron reactions on $\text{sup}(92,94)\text{Mo}$ and ^{116}Cd nuclei. (A33). 493244
- INDIUM 119:**
- energy levels**
Nuclear data sheets for $A=119$. (A33). 478601
- energy-level transitions**
Nuclear data sheets for $A=119$. (A33). 478601

INDIUM 121:

- energy levels
Nuclear data sheets for A=121. (A34). 486465
- nuclear structure
Nuclear data sheets for A=121. (A34). 486465

INDIUM 127 TARGET:

- photonuclear reactions
Ineffectiveness of the quasi-deuteron mechanism of interaction in yielding (γ , nucleon) reactions on complex nuclei above 150 MeV. (A33). [Data] 481501

INDOLENES:

See also MELATONIN; MEXAMINE; SEROTONIN; TRYPTAMINES; TRYPTOPHAN; VINBLASTINE

- metabolism
Transport of ^{14}C -labeled indoleacetic acid in Vicia root segments. (C41). 476637
- radiolysis
Pulse radiolysis of ethanol solutions of indoline spiro pyrans. (B14). 479145

INDONESIA:

- lava
Oxygen isotopes and the origin of high- $^{87}\text{Sr}/^{86}\text{Sr}$ andesites. (B31). 460860

INDUCED RADIOACTIVITY:

See RADIOACTIVITY

INDUCTORS:

See SOLENOIDS

INDUSTRIAL ACCIDENTS:

- Toxic vapor concentrations in the control room following a postulated accidental release. (C52). 487613
- hazards
Risk. (C52). 463383
- systems analysis
Application of quality assurance human factors and reliability principles to the prevention of major environment, safety, and health incidents. (C54, C52). 461348

INDUSTRIAL PLANTS:

See also CENTRIFUGE ENRICHMENT PLANTS; FEED MATERIALS PLANTS; FEED MATERIALS PRODUCTION CENT; GASEOUS DIFFUSION PLANTS; HEAVY WATER PLANTS; ISOTOPE SEPARATION PLANTS; PORTSMOUTH GASEOUS DIFFUSION P

- management
Development of automated welding process for field fabrication of thick walled pressure vessels: management plan. (F60; Westinghouse Electric Corp.). 492372

- risk analysis
Limits and benefits of risk analysis from the point of view of an independent expert. (C52). 469935

INDUSTRIAL RADIOGRAPHY:

- Nondestructive testing: x-ray photography and radiography (citations from the NTIS data base). Report for 1964-August 1978. (E17). 473753
- Nondestructive testing: x-ray photography and radiography. Volume 2. August, 1976-August, 1978 (citations from the engineering index data base). Report for August 1976-August 1978. (E17). 473754

- automation
New equipment for automatic radioscopy inspection of large-size pipes. (E17). 470433
- Use of new procedures in non-destructive testing of large-diameter pipes. (E17). 470474

- cost benefit analysis
On the economic efficiency of the industrial use of isotopes. (F13). 482938

- density
Density control of solid bodies using monoenergetic electron backscattering. (D22). 466474

- image intensifiers
A possibility for better signal/noise ratio of radiographs. (E17). 461575

- image processing
Device for spatial resolving material investigations of a sample. (E17). 482653

- images
Recent developments in determining the depth of defects based on radiographs by means of test specimens. (E17). 470453

- measuring instruments
Sampling video-system for the measurement of the depth of welding faults from radiographic pictures. (E42). 488304

- memory devices
Dynamic linearization system for a radiation gauge. (D22, E17; Patent). 476865

- nondestructive testing
Examples of application of the X-ray-integration method for the determination of residual stresses. (E17). 466574

- performance
Penetrameter sensitivity and crack detectability after degradation of the radiographic procedure. (E17). 473743

- Visual comparative method for radiographic determination of defect thickness. (E17). 461571

- photographic emulsions
Factors affecting the nickel yield of an irradiated sodium hypophosphite-ammoniacal nickel system and its potential use as a radiographic media. (B14, E41). 472545

- pipes
New equipment for automatic radioscopy inspection of large-size pipes. (E17). 470433

- pressure vessels
Nondestructive testing of high-pressure rolled vessels. (D22). 466472

radiation protection

- Accidental radiation exposure of two technicians. (C51). 480006
- Development of a model safety training program for radiographers. (C52, C15). 473209
- Practical radiation protection for radiography. (C15). 487255
- Public meeting on radiation safety for industrial radiographers: remarks, questions and answers at five NRC regional meetings. (C15). [Data] 487266
- Public meeting on radiation safety for industrial radiographers: remarks, questions and answers at five NRC regional meetings. (C15). [Data] 476591
- Radiation control in radiography practice. (F61). 463855
- Safety control in radiography. (F61). 463856

sensitivity

- Microradiographs of laser fusion targets: 2-D modeling and analysis. (A14). 478193
- Penetrameter sensitivity and crack detectability after degradation of the radiographic procedure. (E17). 473743

spatial resolution

- Device for spatial resolving material investigations of a sample. (E17). 482653

welded joints

- Recent developments in determining the depth of defects based on radiographs by means of test specimens. (E17). 470453
- Using of semiconductor detector for automation of radiography of welded joints. (D22). 461483

x-ray equipment

- Absolute photon yields of industrial X-ray units - comparison between theory and measurements. (D14, E42). 470245

INDUSTRIAL WASTES:

acoustic monitoring

- Acoustic monitoring of industrial chemical waste released at deep water dump site 106. (C52). 469945

natural radioactivity

- Radiological surveys of Idaho phosphate ore processing - the Wet Process Plant. Technical note. (B33, B32, E52). 472870

sintering

- Investigation of the zinc behaviour in iron ore agglomeration by means of radioisotopes. (D24). 476883

waste disposal

- Oil biodegradation study. (C52). 480164

waste management

- Research, demonstration, training, and fellowship awards, April-September FY1977. (C52, E50). 469907

INDUSTRY:

See also CHEMICAL INDUSTRY; NUCLEAR INDUSTRY

gamma radiation

- Industrial applications of gamma radiation. (D23, C45, C43). 476876

personnel dosimetry

- Radiation dose to construction workers at operating nuclear power plant sites. Volume 2. Appendices A-F. Final report, September 1975-September 1978. (C15). 487246

quality assurance

- Current conceptions of industrial quality assurance. (E17). 461581

radioactive effluents

- Radiation dose estimates due to air particulate emissions from selected phosphate industry operations. (C21, B33; Lung doses to individuals and populations in vicinity of Florida fertilizer plant). [Data] 469781

- Radiological surveys of Idaho phosphate ore processing - the Wet Process Plant. Technical note. (B33, B32, E52). 472870

INELASTIC SCATTERING:

See also DEEP INELASTIC SCATTERING; RESONANCE SCATTERING; THOMSON SCATTERING

carbon 12

- Non-eikonal effects in high-energy scattering IV. Inelastic scattering. (A33). 475736

energy-level transitions

- Investigation of the hadronic transition operator for inelastic proton scattering. (A33). 472194

gev range 01-10

- Non-eikonal effects in high-energy scattering IV. Inelastic scattering. (A33). 475736

neutron beams

- Neutron scattering on systems with intermediate valence (IV-systems). (A13). [Data] 485619

nuclear models

- The orthogonality condition model applied to the inelastic two-step reaction process. (A33). 483767

proton reactions

- Inelastic scattering of polarized protons and cluster structure in 2s-1d shell nuclei. (A33). 472213

r matrix

- R-matrix propagation methods in inelastic and reactive collisions. (A12). 483196

thallium alloys

- Neutron scattering experiments on metallic Tm systems. (A13). [Data] 485618

total cross sections

- Calculation of neutron cross sections of inelastic scattering and some competing processes for ^{232}Th . (A34). 465202

wkb approximation

- Uniform WKB theory of multichannel predissociation and inelastic scattering. (A21). 486037

INERT ATMOSPHERE:

See also COVER GAS

INERTIA:

See MOMENT OF INERTIA

INERTIAL CONFINEMENT:

(A dynamic plasma confinement by inertial forces.)

- Fusion power: massive research program aims at formidable problems, almost limitless potential. (A14; Survey article). 485701
- Laser fusion. Volume 1. 1964-september, 1977 (a bibliography with abstracts). Report for 1964-September 1977. (A14). 471649
- Laser fusion. Volume 2. October, 1977-August, 1978 (a bibliography with abstracts). October 1977-August 1978. (A14). 471712
- Summary on inertial-confinement fusion. (A14). 483380
- accelerators**
- Acceleration systems for heavy-ion beams for inertial confinement fusion. (A14, E16). 475004
- 100 kJ ion beams for pellet implosions. (A14, E16). 475081
- beam transport**
- Magnetic self-insulation of vacuum transmission lines. (A14). 474945
- beam-plasma systems**
- Inertial confinement fusion research at Osaka. New developments in laser energy drivers, laser and REB fusion research. (A14). 483303
- carbon dioxide lasers**
- Recent progress in inertial confinement fusion research at the Los Alamos Scientific Laboratory. (A14). 483387
- electron beams**
- Research on electron-beam inertial-confinement thermonuclear fusion. (A14). 483298
- feasibility studies**
- Nuclear microexplosion futurology. (A14). 467721
- fluid mechanics**
- Pellet dynamics in inertial confinement fusion - heavy ions, lasers, etc. (A14). 459950
- ion beams**
- Target designs for energetic ions. (A14). 459926
- The United States programme in heavy ion beam fusion. (A14). 483340
- magnetic mirrors**
- Design experiment on fusion by inertial confinement using heating by oscillating electrons in a magnetic mirror. (A14). 483390
- plasma diagnostics**
- Diagnostics for fusion experiments. (A14). 485832
- power supplies**
- Recent developments in high average power driver technology. (A14). 492808
- relativistic beam injection**
- Design experiment on fusion by inertial confinement using heating by oscillating electrons in a magnetic mirror. (A14). 483390
- research programs**
- Achievements and challenges in particle beam fusion research. (A14). 489382
- Use of heavy ions for inertial confinement fusion. (A14). 467618
- targets**
- Method for producing small hollow spheres. (B12; Patents). 486608
- Target designs for energetic ions. (A14). 459926
- INFANTS:**
- biomedical radiography**
- Further means for reducing radiation dose during exposure of the pelvis in infants. (C55). 470002
- radiation protection**
- Improved shielding of the gonads of infants during comparative X-ray examination of the hip joints. (C54). 476735
- INFECTIOUS DISEASES:**
- See also *FILARIASIS; GONORRHEA; HERPES ZOSTER; LEPROSY; LUPUS; MEASLES; MYCOSES; SCHISTOSOMIASIS; TRYPANOSOMIASIS; TUBERCULOSIS*
- amoeba**
- Effect of corticosteroid and irradiation on caecal amoebic infection in rats. (C42, C14, C12). 487329
- dexamethasone**
- Effect of corticosteroid and irradiation on caecal amoebic infection in rats. (C42, C14, C12). 487329
- diagnosis**
- ⁶⁷Ga-citrate uptake by the parotid glands in sarcoidosis. (C62, C21; Effectiveness for differential diagnosis). 494569
- Imaging experimental infective endocarditis with indium-111-labeled blood cellular components. (C62, C21; Rabbits, aortic valve). 487730
- Ventriculitis: diagnosis with technetium-99m DTPA. (C62). 470084
- whole-body irradiation**
- Effect of corticosteroid and irradiation on caecal amoebic infection in rats. (C42, C14, C12). 487329
- INFLAMMATION:**
- See also *ABSCESSSES*
- body fluids**
- Induction of macrophage DNA synthesis in vitro by non-immunological inflammatory exudates: effect of irradiation and thymus or bone marrow cell reconstitution. (C11). [Data] 463052
- diagnosis**
- /sup 99mTc-IDA imaging in the differential diagnosis of acute cholecystitis and acute pancreatitis. (C62). 470098
- ⁶⁷Ga-citrate uptake by the parotid glands in sarcoidosis. (C62, C21; Effectiveness for differential diagnosis). 494569
- Computerized double-tracer subtraction scanning with Gallium-67 citrate in inflammatory diseases. (C62). 470086
- Evaluation of inflammatory bowel disease with /sup 99mTc-DTPA. (C62, C31). 470114
- Rapid and accurate diagnosis of acute cholecystitis with /sup 99mTc-HIDA cholescintigraphy. (C62; HIDA = dimethyl acetanilide iminodiacetic acid). 473493
- Ventriculitis: diagnosis with technetium-99m DTPA. (C62). 470084
- radiation effects**
- After-loading transperineal iridium-192 wire implantation of the prostate. (C15, C64; Complications following interstitial radiotherapy). 487263
- Carcinoma of the vagina. (C15; Complications following whole-pelvis γ irradiation and radium implant therapy). 469709
- Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019
- Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ⁶⁰Co-teletherapy). 472998
- Effects of irradiation of mixed muellerian tumors of the uterus. (C15, C63, C64; Complications following external and internal radiotherapy and surgery). 487268
- Esophagitis induced by combined radiation and adriamycin. (C15, C63; Mediastinum irradiated to doses between 500 and 2500 rad.). 472994
- Long term follow-up of combination chemotherapy - radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
- Opossum as an animal model for studying radiation esophagitis. (C14; Gamma rays). 490967
- Proton radiation as boost therapy for localized prostatic carcinoma. (C15, C63). 487274
- Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276
- Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
- Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 473029
- Whole pelvis megavoltage irradiation with single doses of 1000 rad to palliate advanced gynecologic cancers. (C15, C63, C64; Incidence and severity of acute complications). 472995
- surgery**
- Radiosurgical treatment of endometrial carcinoma: the value of simple surgery versus extended surgery. (C15, C63, C64; Comparison of incidence of radiotherapeutic complications in relation to simple or extended surgery). 473018
- INFORMATION:**
- See also *DATA; DIAGRAMS; ELECTROCARDIOGRAMS; FEYNMAN DIAGRAM; HERTZSPRUNG-RUSSELL DIAGRAM; OPTICAL DEPTH CURVE; PHASE DIAGRAMS*
- Generalized bibliographic format as used by the Ecological Sciences Information Center. (B33, B31, B32, C52, E50, F30). 472865
- computer codes**
- Automatic analysis of radioisotope investigations results. (C61, F51). 494517
- computer-graphics devices**
- Design considerations and philosophy of a device-independent publications/graphics system. (F30). 466933
- data processing**
- System analysis of information structure of radiodiagnostic laboratory. (C62). 494521
- documentation**
- Assessing the useability of technical manuals: a successful case history. (F30, F50). 477524
- growth**
- Growth of a journal reflects trends in the literature of nuclear analytical methods. (F32). [Data] 485221
- reviews**
- Growth of a journal reflects trends in the literature of nuclear analytical methods. (F32). [Data] 485221
- INFORMATION NEEDS:**
- (Identification of subject areas or types of data on which information is needed in order to further specific areas of research. Coordinate with descriptors for the specific areas of research.)
- nuclear energy**
- Presence and future of information need coverage for Czechoslovak nuclear programme R and D. (F32). 477526
- INFORMATION RETRIEVAL:**
- computers**
- Performance evaluation of a prototype relational data base handler for technical and scientific data processing. (F31). [Data] 463824
- punched cards**
- Edge-punched literature retrieval system "hot atom chemistry". (F32, B13). 466939
- reactor safety**
- Development of nuclear safety information retrieval system. (F32). 466938
- uses**
- INIS-SDI system at JAERI. (F32). 477525
- INFORMATION SYSTEMS:**
- See also *AGRS; INIS*
- The "GAPHYOR" system: A computerized retrieval system of the properties of atoms, molecules, gases and plasmas. (F31). 482953
- INSITE information system data graphs. (C52). 491151
- Toward automating the database design process. (F32). 495249
- behavior**
- Information systems and information behaviour - sociological bases of information policies. (F32, F31). 462030
- bibliographies**
- BIBLIO-DATA, the national bibliographical data bank of the Deutsche Bibliothek. (F32). 466936
- chemistry**
- On-line services offered by 'Fachinformationszentrum Chemie' to the chemical engineer. (F31). 471146

- computer-aided design**
Computer-aided software development. (F31). 462028
- cost benefit analysis**
Cost/benefit analysis of the integrated safeguards information system (ISIS) alternatives. Final report, 15 May 1978-15 August 1978. (F41). 492311
- data processing**
Data bank for nuclear science and technology. (F31). 463822
Information management problems relating to numeric data base services for DOE. QEI report 9413 (Interim report for Phase II of QEI project 4191). (F30). 492304
- international cooperation**
International information exchange in fusion research. (A14). 492834
- man**
Information systems and information behaviour - sociological bases of information policies. (F32, F31). 462030
- metals**
Information and documentation in the field of metals. Pt. 1. (F32, F31). 466937
- nuclear medicine**
An information system for a department of nuclear medicine. (F31). 471147
- recommendations**
Information management problems relating to numeric data base services for DOE. QEI report 9413 (Interim report for Phase II of QEI project 4191). (F30). 492304
- standardized terminology**
Energy information data base. Serial titles, February 1976 - March 1979. (F30). 488435
Energy information data base. Serial titles, supplement 3. (F30). 471141
- INFRARED DIVERGENCES:**
On infrared divergences. (A11). 471284
- quantum electrodynamics**
Infrared divergences in the asymptotically not free Yang-Mills theory. (A11, A21). 485302
- yang-mills theory**
Infrared divergences in the asymptotically not free Yang-Mills theory. (A11, A21). 485302
- INFRARED RADIATION:**
See also FAR INFRARED RADIATION
- beam splitting**
Versatile frustrated-total-reflection polarizer for the infrared. (E42). 471004
- cosmic radiation**
Infrared astronomy. (A15). 462416
- frequency converters**
Near-infrared noncritically phase-matched second-harmonic generation in KNbO₃. (B22). 479397
- radiation detection**
Microbolometers for infrared detection. (E41). 480769
- INFRARED SPECTRA:**
isotope effects
Isotope effects on the intensities of the infrared and Raman bands. (A12). 477831
- INFRARED SPECTROMETERS:**
See also PHOTOACOUSTIC SPECTROMETERS
- dewar flasks**
Design of a superfluid helium dewar for the IRAS telescope. (E12). 480372
- performance**
Infrared astronomical spectroscopy. (E42, A15). 461879
- INFUSION:**
small intestine
Rapid duodenal and jejunal intubation. (E41). 474107
- INHALATION:**
cat scanning
Validation of tomographic measurement of cerebral blood volume with C-11-labeled carboxyhemoglobin. (C62, C31). 473471
- INHALATION EXPOSURE CHAMBERS:**
See EXPOSURE CHAMBERS
- INHIBITION:**
gonadotropins
Feedback control by the testis of gonadotrophin secretion: an examination of the inhibin hypothesis. (C14). [Data] 487220
- response modifying factors**
Radioprotective action of inhibitors in UV irradiation of enzyme-inhibitor complexes. (C11). 465907
- INHIBITORS (CORROSION):**
See CORROSION INHIBITORS
- INHIBITORS (ENZYME):**
See ENZYME INHIBITORS
- INHOMOGENEOUS PLASMA:**
brillouin effect
Stimulated Brillouin backscattering in a magnetized inhomogeneous plasma. (A14). [Data] 471745
- computer calculations**
CUPID: a ray-tracing program for continuously varying refracting media. (A14). 489196
- conversion**
Conversion between cold plasma modes in an inhomogeneous plasma. (A14). 485830
- cyclotron instability**
Destruction of cyclotron resonances in weakly collisional, inhomogeneous plasmas. (A14). 485737
- decay instability**
Decay instability of an inhomogeneous plasma at the presence of turning points. (A14). 483296
- dispersion relations**
Variational nature of eigenvalue problems with a parameter. (A11). 477674
- disturbances**
Linearized analysis of inhomogeneous plasma equilibria: General theory. (A14). 467605
- drift instability**
Destruction of cyclotron resonances in weakly collisional, inhomogeneous plasmas. (A14). 485737
Quadratic form for resisting drift modes in a slab with magnetic shear. (A14). 467587
Resonance effect of collisional drift waves. (A14). 485699
- electromagnetic fields**
Structure of laser-induced normal modes in finite inhomogeneous plasma. (A14). 478043
- electromagnetic radiation**
Current-driven electromagnetic modes. (A14). 478175
The equation of polarization transfer in an inhomogeneous magnetized plasma. III. (A14, B33, A15). 489132
A hydrodynamic model for profile steepening at resonance absorption. (A14). 471610
Resonance monochromatization of transverse amplitude-modulated waves in a plasma. (A14). 489142
Stimulated backscattering of electromagnetic ordinary waves from extraordinary waves below the upper hybrid frequency. (A14). 478114
Stimulated Brillouin backscattering in a magnetized inhomogeneous plasma. (A14). [Data] 471745
- electron plasma waves**
Wavebreaking amplitudes in warm, inhomogeneous plasmas. (A14). 478096
- electron temperature**
Wavebreaking amplitudes in warm, inhomogeneous plasmas. (A14). 478096
- energy transfer**
On the plasma heating axial nonsymmetrical fields under conditions of double-ion-cyclotron resonance. (A14). 474992
- equilibrium**
Ionisation equilibrium equation of state: one-component and multi-component plasmas. (A14). 492761
- equilibrium plasma**
Equilibrium and stability in strongly inhomogeneous plasmas. (A14). 492799
- fluctuations**
Density dependent fluctuations of a magnetized non-uniform plasma at the marginal equilibrium. (A14). 478128
- focusing**
Self-focusing of a laser beam in an inhomogeneous plasma. (A14). 471724
- [Data]
- helmholtz instability**
Parallel velocity shear instabilities in an inhomogeneous plasma. (A14, A15). 489346
- high-frequency heating**
Filamentation and spatial attenuation of the lower-hybrid waves in Tokamaks. (A14). 464468
- hybrid resonance**
Two-dimensional self-modulation of lower hybrid waves in inhomogeneous plasmas. (A14). 489244
- interactions**
Self-magnetic-field generation in a plasma. (A14). [Data] 464432
- ion acoustic waves**
On the periodicity of ion-acoustic waves in an inhomogeneous plasma. (A14). 489180
Propagation of ion acoustic soliton in a plasma having two ion components and two electron temperatures. (A14). 492812
- ionization**
Ionisation equilibrium equation of state: one-component and multi-component plasmas. (A14). 492761
- korteweg-de vries equation**
Modified Korteweg-de Vries equation for spatially inhomogeneous plasmas. (A14). 478149
- landau damping**
Solution of the initial value problem and energy redistribution for electron and Alfvén waves in inhomogeneous plasmas. (A14). 459937
- laser radiation**
Nonlinear propagation of laser radiation in an inhomogeneous plasma. (A14). 485823
Self-focusing of a laser beam in an inhomogeneous plasma. (A14). 471724
- [Data]
- magnetic fields**
Self-magnetic-field generation in a plasma. (A14). [Data] 464432
- parametric instabilities**
Low frequency parametric processes in magnetically confined plasmas. (A14). 464419
Parametric instabilities induced by a low-frequency heating wave in a magnetically confined plasma. (A14). 464420
Parametric interaction of a non-uniform plasma column with an external electromagnetic field. (A14). 462363
- plasma acceleration**
Evolution of density discontinuity in the kinetics of a rarefied plasma. (A14). 474936
- plasma instability**
Equilibrium and stability in strongly inhomogeneous plasmas. (A14). 492799
Lower hybrid absolute decay instability in an inhomogeneous plasma due to upper sideband effect. (A14). 462405
- plasma microinstabilities**
Microinstabilities in an inhomogeneous ion-beam plasma system. (A14). 462362

- plasma simulation**
A hydrodynamic model for profile steepening at resonance absorption. (A14). 471610
Initial particle loadings for a nonuniform simulation plasma in a magnetic field. (A14). 467637
- plasma waves**
Eigenmodes of the fast magnetosonic wave in a Tokamak and antenna loading impedance. (A14). 459846
Stimulated backscattering of electromagnetic waves from electrostatic waves in a magnetized plasma. (A14). 489375
The temperature anomaly of the resonant high-frequency dissipation of electromagnetic waves in plasma. (A14). 489336
- positive column**
Model applied to an argon plasma. Application for stationary electric arc. (A12). 488787
- radiations**
Radiation instability of multi-component plasma and formation of heavy-ion clusters. (A14). 462403
- refraction**
CUPID: a ray-tracing program for continuously varying refracting media. (A14). 489196
- runaway electrons**
Electromagnetic emission around the plasma frequency induced by relativistic runaway electrons. (A14). 485667
- solitons**
Two-dimensional self-modulation of lower hybrid waves in inhomogeneous plasmas. (A14). 489244
- stability**
A new treatment of localized modes in inhomogeneous Vlasov plasma. (A14). 467713
- variations**
On the periodicity of ion-acoustic waves in an inhomogeneous plasma. (A14). 489180
- wave packets**
Nonlinear evolution of three coupled wave packets in homogeneous plasma. (A14). 462274
- wave propagation**
Lower-hybrid wave propagation in inhomogeneous plasmas. (A14). 462296
Nonlinear propagation of laser radiation in an inhomogeneous plasma. (A14). 485823
Ordinary and extraordinary mode in an inhomogeneous plasma in the presence of electron runaways. (A14). 464271
Propagation and mode conversion of lower hybrid waves in inhomogeneous magnetic fields. (A14). [Data] 475139
Propagation of ion acoustic soliton in a plasma having two ion components and two electron temperatures. (A14). 492812
- INIS:**
INIS: The International Nuclear Information System. (F32). 482956
- developing countries**
INIS and AGRIS - Their use and potential in developing countries. (F32). 485223
- documentation**
Features of the INIS input system and problems in Japanese information input. (F32). 474366
- jaeri**
INIS-SDI system at JAERI. (F32). 477525
- japan**
Features of the INIS input system and problems in Japanese information input. (F32). 474366
- INJECTION:**
See also **INTRAVENOUS INJECTION**
- labelled compounds**
Method of testing inflammation. (C31, C62). 482111
- INJECTION (BEAMS):**
See **BEAM INJECTION**
- INJURIES:**
See also **BONE FRACTURES; BURNS; OSTEORADIONECROSIS; RADIATION INJURIES; RADIODERMATITIS; WOUNDS**
- INLAND WATERWAYS:**
nuclear excavation
Estimates of the nuclear design requirement for the Pechora-Kama Canal project. (E14). 466508
Preliminary report: Qattara Project material properties. (E14). [Data] 491539
- INNER BREMSSTRAHLUNG:**
See **INTERNAL BREMSSTRAHLUNG**
- INNER-SHELL IONIZATION:**
coulomb ionization
Comments on an empirical scaling rule related to X-ray emission from superheavy quasimolecules. (A12). 488755
- cross sections**
Determination of ion-induced K-shell ionization cross sections by comparison with nuclear Coulomb excitation. (A12, A34). 488782
The innershell ionization by proton, helium-3 ion and electron impact. (A12). 467325
- deuteron beams**
Light ion induced atomic inner shell ionization in the low energy collision. (A12). [Data] 488901
- electron-atom collisions**
Auger-electron spectra ejected in the Ar Lsub(2,3)MM, the Kr Msub(4,5)NN, and the Xe Nsub(4,5)OO processes by electron impact. (A12). 471399
- impact parameter**
Comments on an empirical scaling rule related to X-ray emission from superheavy quasimolecules. (A12). 488755
- ion-atom collisions**
Atomic internal shell ionization by heavy charged particles in the binary collision model. (A12). 488853
K-vacancy production by 3.6-, 4.75-, and 5.9-MeV/amu ²³⁸U ions. (A12). [Data] 467153
- Measurements of K-shell ionization with ¹³²Xe and ²⁰⁸Pb projectiles in the energy range of 1.4-5.9 MeV/u. (A12). [Data] 467164
- k shell**
Determination of ion-induced K-shell ionization cross sections by comparison with nuclear Coulomb excitation. (A12, A34). 488782
- mathematical models**
Recent evolution of theoretical models in inner shell photoionization. (A12). 467185
- multiple scattering**
Influence of multiple scattering on the measurement of the ionization probability of inner shells. (A12). 467341
- perturbation theory**
On the adequacy of first-order perturbation theory for calculations of inner-shell ionisation. (A12). [Data] 464072
- probability**
Impact-parameter dependence of K-shell ionization probabilities for 150 keV protons on a titanium target. (A12). [Data] 474632
- proton beams**
Inner-shell ionization by heavy charged particles. (A12). 474631
Light ion induced atomic inner shell ionization in the low energy collision. (A12). [Data] 488901
- random phase approximation**
Ionization of inner shells of atoms taking account of outer shell rearrangement. (A12). 477697
- x-ray spectra**
X-rays following multiple inner-shell ionization. (A12). 471314
- INORGANIC ACIDS:**
See also **BORIC ACID; HYDRIODIC ACID; HYDROBROMIC ACID; HYDROCHLORIC ACID; HYDROCYANIC ACID; HYDROFLUORIC ACID; HYPOCHLOROUS ACID; HYPOPHOSPHOROUS ACID; IODIC ACID; NITRIC ACID; PERCHLORIC ACID; PHOSPHORIC ACID; PHOSPHOROUS ACID; SULFURIC ACID; TELLURIC ACID**
- absorption spectra**
pH value effect on electron absorption spectra of reduced silicomolybdic acid in aqueous solutions and in triethylamine extracts in toluene. (B12). 478931
- INORGANIC ION EXCHANGERS:**
See also **BENTONITE; CLINOPTILOLITE; MONTMORILLONITE; ZEOLITES**
Application of inorganic sorbent in actinide separation processes. (E51). 466883
Proceedings of the Sandia Laboratories workshop on the use of titanate ion exchangers for defense waste management. (E51). 477464
- chemical preparation**
Ion exchange studies with ferrocyanide molybdate and zirconium phosphate in mixed solvent media. Part 1: Synthesis of the exchangers. (B12). 493684
- reviews**
Inorganic ion exchangers for the selective adsorption of uranium and plutonium from fission product solutions. (B24, B12). 472720
- structural chemical analysis**
Structural studies on some antimonate exchangers. (B12). 481678
- zirconium phosphates**
Studies on the ammonium form of crystalline zirconium phosphate, 2. (B12). 465317
- INORGANIC PHOSPHORS:**
See also **CADMIUM SULFIDES; CADMIUM TUNGSTATES; CALCIUM TUNGSTATES; CESIUM IODIDES; LITHIUM IODIDES; POTASSIUM IODIDES; SODIUM IODIDES; ZINC SULFIDES**
- gadolinium ions**
The intermediate role of Gd³⁺ in the energy transfer from a sensitizer to an activator. (A12). 459732
- luminescence**
Estimation of the quantum yield in the candeluminescence process by low energy h⁺ ion bombardment. (B14, B12; 300K, 1 to 8 keV; radical-recombination luminescence (RRL)). 486773
- thermoluminescence**
Effect of temperature during UV and gamma irradiations of TL phosphor CaSO₄:Dy. (E41). 470926
Gamma radiation induced sensitization and photo-transfer in Mg₂SiO₄:Tb TLD phosphor. (E41). 470904
TL sensitivity of CaSO₄:Dy phosphor powder - effect of grinding. (E41). 470954
- INOSINE:**
hydrolysis
Secondary deuterium isotope effects for acid-catalyzed hydrolysis of inosine and adenosine. (B12). 462739
- nucleotides**
Evaluation of a nuclease-resistant derivative of poly(I) poly(C) [poly(ICLC)] as a radioprotective agent. (C14; Whole-body γ-irradiated mice). 476547
- INSECTICIDES:**
See also **DDT**
- biological radiation effects**
Effects of gamma radiation and insecticide treatment (films) on the adults of susceptible and insecticide resistant strains of tribolium castaneum (Herbst). (C43). 482145
- residues**
Isotopic tracer aided studies on the fate of leptophos residues in cotton seed and its products under Pakistan conditions. (C42; 4-bromo-2,5-dichlorophenyl methyl phenyl phosphonothioate). 463321
- INSECTS:**
See also **APHIDS; BEETLES; BOLL WEEVIL; CERATITIS CAPITATA; DACUS OLEAE; DROSOPHILA; FLIES; FRUIT FLIES; GLOSSINA; MOTHS; TRIBOLIUM**
- biological radiation effects**
Effects of laser radiation on the longevity of adults of Zabrotes of Subfasciatus (Boh.). (C14, C42). 463191

- cytology**
Effects of gamma irradiation on the cytology of the mesenteron of chilo suppressalis walker. (C11). [Data] 469597
- life span**
Effects of laser radiation on the longevity of adults of Zabrotes of Subfasciatus (Boh.). (C14, C42). 463191
- mating**
Determination of mating frequency by radiotracer technique. (C42, C31). 463319
- mesentery**
Effects of gamma irradiation on the cytology of the mesenteron of chilo suppressalis walker. (C11). [Data] 469597
- nutrition**
Comparative study of food transfers in the three castes of the honeybee (Apis mellifica ligustica S.) in which four distal sections of both antennae have been cut off. (C44). 461150
- pest control**
Dosimetry studies related to irradiation of some insects with ^{60}Co γ -rays and 1.0 MeV electrons, at different dose rates. (D15, C42). 494663
- temperature dependence**
Cooling Systems Program. (B32). 479659
- INSPECTION:**
See also *IN-SERVICE INSPECTION*
- federal republic of germany**
Inspection techniques and equipment based on German requirements on ISI. (E31, E32). 463617
- quality assurance**
From inspection to quality assurance. (E22). 466612
- ultrasonic testing**
From the detection to the evaluation of ultrasonic indications during in-service inspection. (E17, E30). 470485
- INST V. KERNPH ONDER AMSTERDAM:**
See *IKO*
- INSTABILITY:**
See also *BALLOONING INSTABILITY; CONVECTIVE INSTABILITIES; CYCLOTRON INSTABILITY; DECAY INSTABILITY; DRIFT INSTABILITY; EXPLOSIVE INSTABILITY; FLUTE INSTABILITY; HELICAL INSTABILITY; ION WAVE INSTABILITY; KINK INSTABILITY; LOSS CONE INSTABILITY; PARAMETRIC INSTABILITIES; PLASMA INSTABILITY; PLASMA MACROINSTABILITIES; PLASMA MICROINSTABILITIES; RAYLEIGH-TAYLOR INSTABILITY; TEARING INSTABILITY; TRAPPED-PARTICLE INSTABILITY; TWO-STREAM INSTABILITY*
- nonlinear problems**
Nonlinear stability of envelope solitons. (A14). 467599
- shape**
Maximum overlap and shape instabilities. (A11). 471260
- INSTABILITY GROWTH RATES:**
magnetohydrodynamics
Influence of viscosity and thermal conductivity on the MHD stability of a cylindrical current - carrying plasma. (A14). 471646
- INSTALLATION SITES:**
See *NUCLEAR FACILITIES*
- INSTANTONS:**
CP violation and instantons. (A21). 489808
Instantons in quark plasma, multibaryon hadrons and neutron stars. (A21). 475630
- bag model**
Instantons in a quark plasma. Superheavy hadrons and neutron stars. (A21, A15). 468139
- chiral symmetry**
Instanton-type solutions in supersymmetric chiral models. (A11). 477655
- cp invariance**
Evading the axion without massless quarks. (A21, A11). 486087
- cylindrical configuration**
Cylindrically symmetric instantons for the gauge groups of rank 2 ($\text{SU}(3), \text{O}(5)$ and G_2). (A11). 488658
- einstein field equations**
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- equations of motion**
Merons and meronlike configurations. (A11, A21). 492401
- field theories**
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- fluctuations**
Quantum fluctuations of multi-instanton solutions. (A11). 488549
- functionals**
Approximation algorithm for functional integrals, and the instanton gas. (A11). 488626
- gauge invariance**
Gauge zero modes, instanton determinants, and quantum-chromodynamic calculations. (A21, A11). 489737
On ambiguity of gauge conditions in the vicinity of instanton. (A11). 485286
- general relativity theory**
Singularity-free field model for a particle. (A11, A15). 467022
- geometry**
New explicit instantons and the geometry of the parameter space. (A11). 467088
- green function**
Instanton Green functions and tensor products. (A11). 477604
TP inversion in quantum gravity. (A11). 477668
- group theory**
Cylindrically symmetric instantons for the gauge groups of rank 2 ($\text{SU}(3), \text{O}(5)$ and G_2). (A11). 488658
- higgs model**
Instantons and restoration of symmetries. (A11). 467072
- l-s coupling**
Spin-orbit terms of the heavy-quark potential in the presence of instantons. (A11). 485272
- mass**
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- mathematics**
Modified Borel summation method. (A11). 477607
- multiple scattering**
Higher-order instanton effects. (A11). 474478
- o groups**
Cylindrically symmetric instantons for the gauge of rank 2 ($\text{SU}(3), \text{O}(5)$ and G_2). (A11). 485332
- particle interactions**
Fermions coupled to instantons in two dimensions. (A21). 489794
- potential scattering**
Gaussian fluctuations: 't Hooft's method and an approximate method. (A11). 488683
- quantum chromodynamics**
Instanton enhancement of $\Delta I = 1/2$ nonleptonic interactions. (A11, A21). 480992
Instantons, the quark model, and the $1/N$ expansion. (A11). 474542
- quantum field theory**
Quantum fluctuations of multi-instanton solutions. (A11). 488549
Solitons and instantons in quantum field theory. (A21). 462551
- sigma-410 resonances**
Nonlinear two-dimensional sigma-model instanton as a tunneling process. (A21, A11). 475528
- stability**
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
- su groups**
Cylindrically symmetric instantons for arbitrary compact gauge groups. (A11). 483071
Cylindrically symmetric instantons for the gauge of rank 2 ($\text{SU}(3), \text{O}(5)$ and G_2). (A11). 485332
- su-3 groups**
Instantons and embeddings. (A11). 483080
- ultraviolet divergences**
Gaussian fluctuations: 't Hooft's method and an approximate method. (A11). 488683
- yang-mills theory**
Monopoles, strings, and instantons. (A11, A21; Landau - Ginzburg superconductivity). 471278
Some topological solitons: vortices, magnetic monopoles and instantons. (A11, A21). 471285
What does the Euclidean pseudoparticle do in Minkowski space. (A11; Topology). 467074
- INSTRUMENTS (MEASURING):**
See *MEASURING INSTRUMENTS*
- INSULATING LIMITERS:**
See *LIMITERS*
- INSULATION (ELECTR., BY DIEL.M.):**
See *DIELECTRIC MATERIALS*
- INSULATION (THERMAL):**
See *THERMAL INSULATION*
- INSULATORS (ELECTRICAL):**
See *ELECTRICAL INSULATORS*
- INSULIN:**
impurities
Autoimmunity in diabetics induced by hormonal contaminants of insulin. (C62). [Data] 463457
- labelling**
Radioactively labelled iodinated insulin and method of preparation. (B13, C62). 484074
- radioimmunoassay**
Radioimmunological determination of insulin in case of diabetes mellitus. (C62). 482395
Radioisotope "in vitro" and "in vivo" investigation of insulin metabolism in patients with heart ischemia. (C62). 482394
- radioisotope scanning**
Radiological and radioimmunological investigations of insulin metabolism and insulin apparatus functions of pancreas. (C62). 482435
- INSURANCE:**
See also *NUCLEAR INSURANCE*
- INSURANCE LAW:**
See also *PRICE-ANDERSON ACT*
- INTAKE:**
See also *INFUSION; INHALATION; INJECTION; INTRAVENOUS INJECTION*
- personnel**
Limits for intakes of radionuclides by workers. Part 1. (C53, C21). 494448
- INTEGRAL CROSS SECTIONS:**
(Cross sections integrated over all angles; a measure of the reaction probability, not of the angular distribution.)
- burnable poisons**
Calculation of burnable cells-Hammer versus Leopard. (E32). 461697
- c codes**
Calculation of burnable cells-Hammer versus Leopard. (E32). 461697
- comparative evaluations**
Calculation of burnable cells-Hammer versus Leopard. (E32). 461697
- compiled data**
Adjusted capture cross sections of fission-product nuclides from STEK reactivity worths and CFRMF activation data. (E21). 470491
Tables and figures of adjusted and unadjusted capture group cross

- sections based on the RCN-2 evaluation and integral measurements in STEK. (E21). [Data] 470490
- neodymium isotopes 470751
- Fast reactor programme. (E35, F62, E21). 470751
- neutron detection
- On the consistency between integral and differential cross section data. (E21, E41, D15). [Data] 470507
- promethium 147 470751
- Fast reactor programme. (E35, F62, E21).
- INTEGRAL EQUATIONS:**
- See also LIPPMANN-SCHWINGER EQUATION; QUASIPOTENTIAL EQUATION; VOLTERRA INTEGRAL EQUATIONS
- Smoothness and numerical solution of linear integral equations of the second type with weakly singular kernels. (A11). 467015
- algorithms 459673
- Prony Method revised. (A11). 459673
- eigenfunctions 459675
- Confocal interferometer without the para-axial approximation. (A11). [Data] 459675
- eigenvalues 459675
- Confocal interferometer without the para-axial approximation. (A11). [Data] 459675
- monte carlo method
- Optimum biasing of integral equations in Monte Carlo calculations. (A32, A31). 490028
- INTEGRAL TRANSFORMATIONS:**
- recursion relations
- On the Λ -transform of the exponential integrals. (A15). 460125
- INTEGRALS:**
- See also FEYNMAN PATH INTEGRAL; RESONANCE INTEGRALS
- Uniqueness of Neumann-Tricomi problem in IR^2 . Technical note BN-906. (A11; Energy-integral method). 480966
- INTEGRATED CIRCUITS:**
- fabrication
- Device for irradiation of a target surface by a variable electron beam, especially electron beam generator, in order to produce semiconductor components. (B25). 490754
- Electron beam writing on semiconductors. (D23). 476872
- Transistor and integrated circuit manufacture. (B25, E43). 460808
- failure mode analysis
- Bremsstrahlung generation development and radiation effects studies. (D14, E13, E43). 487784
- performance
- Neutron irradiation for prevention of latch-up in MOS integrated circuits. (E42). 492187
- physical radiation effects
- Bremsstrahlung generation development and radiation effects studies. (D14, E13, E43). 487784
- INTEGRATED COOLING SYSTEMS:**
- lmfbr type reactors 470754
- Fast neutron reactor. (E35).
- INTENSIFIERS (IMAGE):**
- See IMAGE INTENSIFIERS
- INTERACTING BOSON MODEL:**
- eigenstates
- Coherent states in the IBA. (A33). 490056
- energy levels
- Logarithmic energy decreases in the interacting boson model. (A33). 462621
- energy-level transitions
- Interacting boson model of collective nuclear states III. The transition from $SU(5)$ to $SU(3)$. (A33). 468408
- green function
- Statistical mechanics of bosons with attractive interaction. (A11). 459701
- hamiltonians
- Fermion Hamiltonians with monopole and quadrupole pairing. (A33). 464989
- o groups
- Rotation-vibration structure of ^{195}Pt ; an alternative to the $O(6)$ - limit description. (A33). 478642
- renormalization
- Statistical mechanics of bosons with attractive interaction. (A11). 459701
- INTERACTION RANGE:**
- nuclear cores
- Model-potential method for the calculation of atom-rare-gas interactions; application to the Na-Ne system. (A12). 492544
- INTERACTIONS:**
- (For elementary particles and radiations only. See also CONFIGURATION INTERACTION.)
- radiometric gages
- The role of complex interaction between radiation and matter in the development of radiometric methods. (E41, D22, E42). 492105
- INTERACTIVE DISPLAY DEVICES:**
- ISIS: An interactive dosimetry system for radiotherapy using a computer terminal. (C15). 473007
- data processing
- Use of a display monitor in computer data acquisition and processing. (E42). 477428
- programming languages
- SIGMA, a new language for interactive array-oriented computing. (F51). 462049
- radiotherapy
- A computerized three-dimensional treatment planning system utilizing interactive colour graphics. (C63). 491370
- INTERACTIVE GRAPHICS:**
- See INTERACTIVE DISPLAY DEVICES
- INTERATOMIC FORCES:**
- born-mayer equation
- Born-Mayer type molybdenum-helium and helium-helium interaction potentials, fitted to the results of the helium desorption experiments. (A12). 488826
- exchange interactions
- Inter-atomic interaction between electrons, 2. (A13). 467407
- INTERCHANGE INSTABILITY:**
- See FLUTE INSTABILITY
- INTERFACES:**
- dosimetry 473301
- Interface dosimetry. (C55).
- electron spectra 464200
- Elementary excitations in the surface region of a semi-infinite solid. (A13).
- hydrocarbons
- Process and device for determining an interface between materials with different hydrogen contents. (D22, E11). 461478
- radiometric gages
- Process and device for determining an interface between materials with different hydrogen contents. (D22, E11). 461478
- surface properties
- Adsorption of $EuNBr$ at the mercury/electrolyte interface from water and heavy water solutions. (B12). 460480
- velocity
- Twin-probe measurement of interface transit velocity. Basic comments on relationships between this velocity and the mean local velocity of each phase. (E11). 494691
- vibrational states
- Elementary excitations in the surface region of a semi-infinite solid. (A13). 464200
- water
- Space-dependence of thermal neutron spectra at plane interface between two dissimilar media (pure and borated water media). (B32). 490827
- INTERFACES (EQUIPMENT):**
- See EQUIPMENT INTERFACES
- INTERFEROMETERS:**
- See also FABRY-PEROT INTERFEROMETER; MACH-ZEHNDER INTERFEROMETER; MICHELSON INTERFEROMETER
- AWRE (nonconventional) metrology scene. (E42). 461895
- Computer analysis of holographic interferograms for NDT applications. (E42). 461894
- Handbook of optical testing methods for diamond-turned mirrors. (E42). 471018
- bragg reflection
- Two-crystal neutron interferometry. (E41). 474132
- electron beams
- Amplitude interference and interferometry. (E41). 474104
- electron density
- A 2-mm wave digital interferometer for tokamak discharges in the upgraded DIVA. (A14). 464422
- josephson effect
- Multiple Josephson contact interferometer. (E42). 482891
- mirrors
- Confocal interferometer without the para-axial approximation. (A11). 459675
- neutron diffraction
- Experience with the production of single crystal interferometers. (E41, A31). 474130
- Studies on dynamical diffraction phenomena of neutrons using properties of wave fan and total reflection. (A31, E41). 472105
- Variations of interferometer types. (E41). 474076
- optical modes
- Confocal interferometer without the para-axial approximation. (A11). 459675
- Eigenvalue translation method for mode calculations. (A11). [Data] 459676
- performance
- CO_2 interferometry. (E42; Machined surfaces). 461884
- Noncontacting optical profile probe. (E42). 461886
- Use of the smart interferometer as an alignment tool for infrared laser systems. (A14). 471740
- plasma diagnostics
- A study of two microwave interferometers for the determination of the plasma electron density. (A14). 462389
- spatial resolution
- Rapid spatially scanning ir heterodyne interferometer. (A14). [Data] 467597
- specifications
- CO_2 interferometry. (E42; Machined surfaces). 461884
- Mechanical engineering mid-year progress report. Optical profilometer. (E42; Optical profilometer for roughness of optical surfaces). 461891
- Microinterferometer transducer. (E42). 461892
- synchrotron radiation
- Use of synchrotron radiation in X-ray interferometry. (E41). 474099
- x radiation
- A two-crystal X-ray interferometer for precision measurements of lattice parameters: present state and prospects. (E41). 474035
- INTERFEROMETRY:**
- coherent scattering 472124
- Optical interferometry. (A32).
- near infrared radiation 471911
- Speckle interferometry in the near-infrared. (A15).
- neutron beams
- Interferometry with polarised neutrons. (A31). 472092
- Magnetic substances and fields in the neutron interferometer. (A31). 472093
- The representation of neutron polarization. (A31). 472096

- Scope of neutron interferometry. (A31). 472110
 Some magnetic and spin effects in neutron interferometry. (A13, A31). 471594
neutron diffractometers
 The D18 diffractometer for neutron interferometry at the I.L.L. (E41). 474034
neutrons
 X-ray and neutron interferometry: present state and prospects. (E41, A13). 470840
phase shift
 Gravitational and rotational effects on the neutron phase. (D15, A31). 473581
 Phase considerations in a rotating system. (D15). 473578
 Spin interferometry and phase relations in three level systems. (A32). 472127
plasma diagnostics
 Streak mode interferometric study of plasma focus. (A14). 478061
radiowave radiation
 Study of solids by submillimetre wave interferometry. (E41). 474025
x radiation
 X-ray and neutron interferometry: present state and prospects. (E41, A13). 470840
- INTERFERON:**
adenovirus
 Interferon induction by adenoviruses. (C11). [Data] 472900
biological radiation effects
 X radiation effect on the formation and action of man interferon in cell cultures. (C11). 479763
metabolism
 Induction of interferon by levamisole in mice. (C14; X radiation). [Data] 472966
- INTERGALACTIC SPACE:**
 Quasar absorption lines as probes of the past intergalactic medium. (A15; Halos). 460120
cosmic dust
 Transition radiation from relativistic intergalactic dust grains. (A15). 489460
gravitational interactions
 Optical isotropy of a space and its relation to the equivalence principle. (A15). 492963
magnetic fields
 Suprathermal grains: on intergalactic magnetic fields. (A15). 467797
optical properties
 Optical isotropy of a space and its relation to the equivalence principle. (A15). 492963
x-ray spectra
 The X-ray spectrum and variability of active galaxies. (A15). 489638
- INTERMEDIATE BOSONS:**
 See also *HIGGS BOSONS*; *INTERMEDIATE VECTOR BOSONS*
hadronic particle decay
 Estimates of W production with polarized protons. (E16, A21). 491653
pair production
 W⁺W⁻ and Z⁰Z⁰ pair production in e⁺e⁻, pp, and p-barp colliding beams. (A21, A11). [Data] 464763
particle production
 Estimates of W production with polarized protons. (E16, A21). 491653
- INTERMEDIATE COUPLING:**
 See also *J-J COUPLING*; *L-S COUPLING*
INTERMEDIATE IMAGE SPECTROMETER:
 See *MAGNETIC LENS SPECTROMETERS*
- INTERMEDIATE MASS NUCLEI:**
 (For nuclei with mass 41-180; for specific terms consult the APPENDIX.)
alpha reactions
 Parameter for description of nuclear alignment in gamma spectroscopy. (A33; 50 < A < 100). 493178
angular momentum
 Rotation effect on collective properties of atomic nuclei. (A33). 486262
bc_s theory
 Analytical solutions for the projection in isospin and number in the BCS treatment. (A33). 472172
beta decay
 Model for calculation of beta decay strength functions of spherical nuclei. (A33; ⁷⁶Zn, sup(90,92,94)Kr, ⁸⁴Sr, sup(132,134)Sn, ¹⁴⁰Xe, ¹⁴⁴Ba). 493213
energy levels
 Unified model studies of N = 84 and N = 80 nuclei. (A33; Valence nucleons, collective quadrupole surface vibrations). 460282
energy-level transitions
 Fluctuation analysis of secondary gamma transition intensity relations in neutron resonances. (A33; 96 <= A <= 190). 493281
excitation
 Orientation of a nucleus excited in the positron annihilation on the heavy atom shell. (A33). 493225
excited states
 On the form and partial widths of neutron resonance. (A33). 475779
giant resonance
 Excitation of the giant monopole resonance by protons of about 60 Mev. (A33). 468403
high spin states
 Band structure in even-mass nuclei around A = 70. (A34, A33; Review). 472295
 Phenomena in fast rotating heavy nuclei. (A33, A34). [Data] 465022
- internal conversion**
 Internal conversion coefficients for E5 and M5 nuclear transitions, 30 < or = Z < or = 104. (A34). 468439
multipole transitions
 Internal conversion coefficients for E5 and M5 nuclear transitions, 30 < or = Z < or = 104. (A34). 468439
m1-transitions
 Influence of the two-phonon admixture on the M1-resonance in spherical nuclei. (A33; sup(58,60)Ni, sup(90)Zr, sup(118,120)Sn, sup(124,126)Te). 493279
neutron reactions
 Mechanisms for radiative capture in medium-mass nuclei. (E35, A31). 495009
 Selected topics in nuclear reaction investigations with fast neutrons. (A33, A34; (n,p), (n,n'), (n,2n), (n,3n) and (n,a) reactions). [Data] 468288
 Some results of experimental investigations into the interaction of s-, p-, and d-neutrons with atomic nuclei. (A34, A33). [Data] 468513
nuclear alignment
 Parameter for description of nuclear alignment in gamma spectroscopy. (A33; 50 < A < 100). 493178
nuclear structure
 Number projected two quasiparticle calculations for N=50 nuclei. (A33). 468326
oriented nuclei
 Orientation of a nucleus excited in the positron annihilation on the heavy atom shell. (A33). 493225
oxygen 17 reactions
 Inelastic scattering of ¹⁸O and ¹⁷O ions from medium-weight nuclei. (A34). 486374
oxygen 18 reactions
 Inelastic scattering of ¹⁸O and ¹⁷O ions from medium-weight nuclei. (A34). 486374
proton reactions
 Neutron formation from sup(7)Li, sup(9)Be, sup(10, 11)B, sup(12)C, sup(16)O, sup(19)F, sup(24,25,26)Mg, sup(27)Al, sup(40,44)Ca, Cu, sup(116,124)Sn, sup(181)Ta, Pb nuclei with 1 GeV protons. (A34). 493363
 On the possibility of using statistical theory for differential cross section analysis radiative nucleon capture by intermediate nuclei. (A33; ⁶²Ni (py) ⁶³Cu). 460286
quasi particles
 Number projected two quasiparticle calculations for N=50 nuclei. (A33). 468326
shell models
 Charge-dependent two-body interactions deduced from displacement energies in the 1fsub(7/2) shell. (A33). 483730
 Shell-model study of the N = 28 nuclei with emphasis on high-spin states. (A33; ⁵⁰Ti, ⁵¹V, ⁴⁷Ca, ⁴⁹Ti, ⁵¹Cr). 475784
strength functions
 Description of neutron and radiation strength functions in the quasiparticle-phonon model of nuclei. (A33). [Data] 468417
targets
 Measurement of the surface mass of a heavy element thin target in the presence of light elements. (B11). 483956
unified model
 Unified model studies of N = 84 and N = 80 nuclei. (A33; Valence nucleons, collective quadrupole surface vibrations). 460282
unitarity
 On the boundaries of a unitary scheme applicability. (A33; A <= 100). 468377
yrast states
 Particle-hole structure of nuclear isomers at high angular momenta. (A33). 468285
- INTERMEDIATE NEUTRONS:**
neutron sources
 Intermediate energy neutron production; a survey of existing techniques, a proposed source and its applications. (D14). 491402
- INTERMEDIATE RESONANCE:**
alpha reactions
 Study of the quasimolecular resonance by the ²⁴Mg(α, ¹²C)¹⁶O reaction. (A34). 465219
spin
 Study of the symmetries and properties of the particle-particle angular correlations. (A21). 472050
- INTERMEDIATE STRUCTURE:**
chemical reaction kinetics
 On the formation and reactivity of dioxirane intermediates in the reaction of peroxyanions with organic substrates. (A12). 485426
chemical reactions
 Oxenoid intermediate in the reaction of singlet oxygen and ylidoxymgen atom transfer. (A12). 485391
electron spin resonance
 Horseradish peroxidase, 32, on the nature of compounds 1 and 2 as deduced from photochemical studies. (A12, C11). 485436
proton reactions
 Intermediate structure effects in the reaction ²³Na(p, α)²⁰Ne. (A34). 472271
reactivity
 On the formation and reactivity of dioxirane intermediates in the reaction of peroxyanions with organic substrates. (A12). 485426
- INTERMEDIATE VECTOR BOSONS:**
 Beyond the single Z boson hypothesis. (A21). 478435
 Tests of the single Z-boson hypothesis in some purely leptonic processes. I. (A21). 475548
 Tests of the single Z-boson hypothesis in some purely leptonic processes. II. (A21). 475549

- coupling**
Test of Higgs boson nature in $e^+e^- \rightarrow HHZ$. (A21). 483644
- coupling constants**
Nature of the tau-v/sub tau/-W coupling. (A22). 478519
- electron-positron interactions**
Zedology. (A21). 468052
- hadronic particle decay**
Estimates of W production with polarized protons as a means of detecting its hadron jet decays. (A21). [Data] 464839
- leptonic decay**
Angular distributions for leptons from W mesons. (A21; Cross sections). 475620
- Current investigations in electron-positron annihilation. (A21). 478408
- mass**
Limit of the weak boson mass from recent neutrino data. (A21). [Data] 472056
- mass formulae**
Implications of dynamical symmetry breaking: An addendum. (A21, A11). 475639
- obe model**
Higgs boson production by very high energy neutrinos. (A21; 1 to 1000 TeV, cross sections). 475611
- particle decay**
Higgs particle production by $Z \rightarrow H\gamma$. (A21). 471982
- particle identification**
Mass resolution for lepton pairs at Isabelle. (A22). 475650
- particle production**
Estimates of W production with polarized protons as a means of detecting its hadron jet decays. (A21). [Data] 464839
- How to study a gluon jet produced by antiproton-proton colliding beams. (A21). 483620
- Hunting the weak bosons. (A21). 478400
- On the QCD perturbative predictions for the signal of W^+ production in hadronic collisions. (A21). 475541
- Signals of W^+ and Z^0 productions in hadronic collisions as predicted by QCD perturbation. (A21). 462540
- weak hadronic decay**
Three-jet distributions from weak decay of heavy particles. (A21; Final-state gluon). [Data] 489866
- INTERMEDIATE-LEVEL RADIOACTIVE:**
(Wastes containing from $5 \times 10 \exp(-5)$ to 100 microcuries/milliliter of radioactivity.)
- wet ashing**
Investigations on the extraction of Pu from MAW. (E51). 461925
- INTERMETALLIC COMPOUNDS:**
See also CEMENTITE
- chemical bonds**
Valence bond approach for calculating bond energies of diatomic intermetallic compounds with multiple bonds and comparison with experiment. (A12). 463991
- crystal growth**
Czochralski growth of A15 structure intermetallic compounds. (B21, A17). 490550
- Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24). 479353
- crystal structure**
Study of the A-15 phase in the NbAl system. (A13). 471520
- effective charge**
Charge state of nickel atoms in some intermetallic compounds. (B12; Ni₃Nb, Ni₃Ta, Ni₃Mo). 493679
- electronic structure**
On the electronic structure of A15 materials. (A17, B22). 471949
- heat resisting alloys**
Investigation into effect of tin and zirconium alloying on high-temperature strength and heat resistance of Ti₃Al compound base alloy. (B22). 469215
- magnetic susceptibility**
Magnetic excitations in the cubic antiferromagnet ErCu. (A13). 471521
- magnetism**
Magnetic ordering temperatures in rare earth-Fe₂ laves phases determined by DTA. (A13). 464174
- magnets**
Periodical structure and coercive force of sintered RCo₂ magnets. (B23). 494074
- physical radiation effects**
Scattering of X-rays in irradiated A15 compounds. (B25, A13). 472771
- spin waves**
Magnetic excitations in the cubic antiferromagnet ErCu. (A13). 471521
- superconductivity**
Properties of the A-15 compounds and one-dimensionality. (A17). 475472
- Superconductivity and physical chemistry of metals. (B22, A17). 472677
- Superconductivity in A-15 compounds. (B22, A17). 476323
- thermodynamic properties**
Thermodynamic studies on liquid Mg-In-Sn ternary solutions. (B12). 460508
- transition temperature**
High Tsub(c) of A15 compounds: linear chains or cubic symmetry. (A17, B22). 471965
- x-ray diffraction**
Scattering of X-rays in irradiated A15 compounds. (B25, A13). 472771
- INTERMOLECULAR FORCES:**
Intermolecular interactions. (A12). 485467
- charge exchange**
Approximate exchange perturbation study of intermolecular interactions in molecular complexes. (A12). 464093
- INTERNAL BREMSSTRAHLUNG:**
beta decay
Experimental study on the internal bremsstrahlung, following the ³⁵S beta decay. (A34, A33). 493448
- INTERNAL CONTAMINATION:**
See RADIONUCLIDE KINETICS
- INTERNAL CONVERSION:**
See also K CONVERSION; L CONVERSION
- binding energy**
Precision measurements of high-energy conversion electron lines and determination of neutron binding energies. (A34). [Data] 472236
- electronic structure**
On taking into account atom reconstruction in the calculation of internal conversion coefficients. (A33). 493157
- Theoretical investigation of gamma-ray internal conversion in outer atomic shells. (A12). 492523
- excited states**
Theoretical investigation of gamma-ray internal conversion in outer atomic shells. (A12). 492523
- leao method**
Application to ab initio calculations to nuclear internal conversion: repulsion energies of highly charged HBr ions. (A12). 488835
- multipolarity**
Multipolarities of γ -rays from ⁹²Nb and ⁹⁴ ⁹⁵ ⁹⁶ ⁹⁷ ⁹⁸Tc. (A34). 483905
- weak neutral currents**
Internal conversion as a probe of weak neutral currents. (A21, A33). 486070
- INTERNAL CONVERSION RADIOISOTO:**
See also more specific entries as listed in the INIS Thesaurus.
- INTERNAL IRRADIATION:**
dose-response relationships
Effects of source distribution, dose, and linear energy transfer capacity on inactivation and mutation of mycobacteria after ²¹H, ³⁵S, and ³²P incorporation. (C21, D15). 482101
- microdosimetry**
Internal microdosimetry. (C11, C55). 460991
- unsealed sources**
Irradiation of aquatic animals by radionuclide incorporation. (C21). 484572
- INTERNAL MEDICINE:**
See MEDICINE
- INTERNAL PAIR PRODUCTION:**
(Only electron-positron pairs are produced internally.)
- alpha decay**
Comment on internal pair production in nuclear decay. (A33). 483791
- INTERNAL RING DEVICES:**
See also LEVITRON DEVICES; SPHERATOR
- INTERNAT ATOMIC ENERGY AGENCY:**
See IAEA
- INTERNAT COMM RAD UNITS MEASUR:**
See ICRU
- INTERNAT COMM RADIAT UNITS:**
See ICRU
- INTERNAT COMM RADIOL PROTECT:**
See ICRP
- INTERNAT. NUCL. INFORMAT. SYST:**
See INIS
- INTERNATIONAL AGREEMENTS:**
(Including agreements involving international organizations. The countries or organizations parties to the agreement are also indexed if appropriate.)
- See also ATOMIC ENERGY AGREEMENTS; BILATERAL AGREEMENTS; IAEA AGREEMENTS; PCOTPL*
- atomic energy law**
Nuclear Law. (F20). 466921
- INTERNATIONAL NUCLEAR DATA COM:**
indexes
INDC correspondents for the exchange of nuclear data information. (F61). 482970
- List of documents received by the INDC Secretariat. (F61). 482971
- nuclear data collections**
IAEA advisory group meeting on nuclear data for reactor dosimetry, Vienna, 13 - 17 November 1978. (A34, E21). 481579
- INTERNATIONAL ORGANIZATIONS:**
See also CERN; COMECON; ESARDA; EURATOM; EURODIF; IAEA; ICRP; ICRU; ICTP; INTERNATIONAL NUCLEAR DATA COM; IRPA; JINR; NEA; UNSCEAR
- INTERPLANETARY MAGNETIC FIELDS:**
Interplanetary magnetic holes: theory. (A15). 485848
- auroral oval**
Influences of the interplanetary magnetic field on the auroral dynamics. (B33, A15). 479739
- cosmic radiation**
IMF sector structure and cosmic ray intensity variation. (B33). [Data] 490889
- data**
Solar-geophysical data number 407, Jyul 1978, Part I. (Prompt reports). data for June 1978, May 1978. (A15, B33). 464546
- energetic solar particles**
Solar-geophysical data number 406, June 1978, Part I. (prompt reports). Data for May 1978, April 1978. (A15, B33). 475234
- geomagnetic field**
Dependence of geomagnetic activity on solar wind parameters. (B33). 476489
- Hale sector boundary and geomagnetic activity. (B33, A15). 484417

- magnetic bays**
Interplanetary energy flux associated with magnetospheric substorms. (A15). [Data] 471752
- magnetic storms**
Interplanetary energy flux associated with magnetospheric substorms. (A15). [Data] 471752
- shock waves**
Initial ISEE magnetometer results: shock observation. (B33). 484424
- spectroscopy**
A long term dominant two sector structure observed in the interplanetary magnetic field. (A15). 485873
- INTERPLANETARY SPACE:**
Solar wind and interplanetary medium. (A15; Illustrated glossary). 460136
- chemical composition**
Interplanetary dust. (A15). 492959
- cosmic ray flux**
Cosmogenic radioisotopes in the Dhajala chondrite: implications to variations of cosmic ray fluxes in the interplanetary space. (A15). 460029
- cosmic ray propagation**
Average properties of cosmic ray diffusion in solar wind streams. (A15). 489590
Comparison of ground level cosmic ray enhancement of November 22, 1977 and February 25, 1969. (A15). 467870
- inhomogeneous plasma**
On the rebuilding of the interplanetary scintillation pattern. (A15). 489568
- ion acoustic waves**
Plasma wave turbulence associated with an interplanetary shock. (A15). [Data] 464579
- plasma density**
Interplanetary magnetic holes: theory. (A15). 485848
- plasma waves**
On the determination of the normal to the magneto-hydrodynamic discontinuity by use of magnetic measurement data. (A15). 489540
Single-point method of identification of magneto-hydrodynamic discontinuities. (A15). 489541
- protons**
Radial variation of corotating energetic particle streams in the inner and outer solar system. (A15). [Data] 464681
- shock waves**
Connection of interplanetary shock wave parameters and energetic storm particle events. (A15). 489500
Plasma wave turbulence associated with an interplanetary shock. (A15). [Data] 464579
- solar radiation**
Modification of solar lines propagating through the interplanetary medium. (A15). 489665
- INTERPOLATION:**
algorithms
Some experiments with piecewise cubic interpolation. (F50, B13). 462047
- INTERSECT. STORAGE ACCELERATOR:**
See *ISABELLE STORAGE RINGS*
- INTERSECTING BEAMS:**
See *COLLIDING BEAMS*
- INTERSTELLAR GRAINS:**
Interstellar grains and solid-state physics. (A15). 467859
Interstellar matter. (A15). 460098
Physics and astrophysics of interstellar dust. (A15). 460073
- absorption spectra**
Origin of the diffuse interstellar absorption bands: Transition metal ions in oxide grains. (A15). 464559
- carbon**
UV spectrum of supernova remnant reveals carbon depletion in the interstellar medium. (A15). [Data] 460028
- equations of motion**
Disruption and sputtering of grains in intermediate-velocity interstellar clouds. (A15). 467936
- flocculation**
Thermal coagulation of charged grains in dense clouds. (A15). 483571
- fluorescence**
Emission lines due to interstellar dust in the visible spectra of nebulae. (A15). 483473
- hydrocarbons**
Long chain carbon molecules and diffuse interstellar lines. (A15). 471874
- iron**
Iron condensation and the formation of planetary nebulae. (A15). 478332
- molecules**
What are interstellar grain made of. (A15). 464610
- olivine**
Infrared extinction of heavy ion irradiation and amorphous olivine, with applications to interstellar dust. (A15). 483506
- optical properties**
Predicted color excess ratios versus interstellar grain size. (A15). 475347
- organic compounds**
Tholins: organic chemistry of interstellar grains and gas. (A15). [Data] 460119
- particle size**
Predicted color excess ratios versus interstellar grain size. (A15). 475347
- polarization**
Dust-to-gas ratio in disk galaxies. (A15). 489536
- radiation pressure**
On the production of suprathermal grains by radiation pressure. (A15). 483570
- scattering**
Dust-to-gas ratio in disk galaxies. (A15). 489536
- silicates**
The 10- and 20- μ m interstellar absorption bands: comparison with the infrared spectrum of the Nogoya meteorite. (A15). 467815
- spatial distribution**
Dust grains at large z-distances. (A15). 464658
- sputtering**
Disruption and sputtering of grains in intermediate-velocity interstellar clouds. (A15). 467936
- titanium**
Origin of the diffuse interstellar absorption bands. (A15). 471872
- transition element compounds**
Origin of the diffuse interstellar absorption bands: Transition metal ions in oxide grains. (A15). 464559
- INTERSTELLAR MAGNETIC FIELDS:**
magnetic flux
Ambipolar diffusion in interstellar clouds: A new solution. (A15). 478302
- magnetohydrodynamics**
Stability of a self-gravitating magnetized system. (A15). 467917
- rayleigh-taylor instability**
The instability of a horizontal magnetic field in an atmosphere stable against convection. (A15). 489607
- turbulence**
Cosmic rays in a large-scale strongly turbulent magnetic field. (A15). 483555
- INTERSTELLAR SPACE:**
ASTRO-6: helium resonance radiation observations with a black brant IVb rocket. (A15). 483515
- absorption spectra**
Origin of the diffuse interstellar absorption bands. (A15). 471872
The 10- and 20- μ m interstellar absorption bands: comparison with the infrared spectrum of the Nogoya meteorite. (A15). 467815
- ambipolar diffusion**
Ambipolar diffusion in interstellar clouds: A new solution. (A15). 478302
- ammonia**
Observations of nonmetastable levels of interstellar ammonia. (A15). [Data] 464670
- carbon monoxide**
Hydrogen densities in molecular clouds inferred from CO observations. (A15). 467914
- charge exchange**
Charge exchange in interstellar medium. (A12, A15). 467257
- chemical composition**
Abundance of interstellar oxygen toward zeta Ophiuchi. (A15). 489461
Depletion of interstellar gaseous iron. (A15). 489623
Detection of HC^{18}O^+ in Sagittarius B2. (A15). 464578
Interstellar HCN, HCO^+ , and the galactic deuterium gradient. (A15). 478317
Isotopic ratios from 6.8 centimeter observations of $\text{H}_2\text{C}^{18}\text{O}$. (A15). 464674
Observations of interstellar HNC, DNC, and HN^{13}C : Temperature effects on deuterium fractionation. (A15). 489634
Observations of interstellar molecular hydrogen emission. (A15). 460026
Riddle of cosmic deuterium. (A15; None). 467908
Velocity distribution of interstellar titanium toward zeta Persei. (A15). 485879
- chemical reactions**
Laboratory investigation of ion-molecule reactions of HC_3N in dense interstellar clouds. (A15). 471809
- cosmic gases**
Hot interstellar medium. (A15). [Data] 489513
- cosmochemistry**
Chemistry of interstellar space. (A15). 483481
- deuterium**
Interstellar HCN, HCO^+ , and the galactic deuterium gradient. (A15). 478317
- element abundance**
Interstellar lines and abundances from the far-U.V. (A15). 467765
- hydrogen**
Atomic to molecular hydrogen transition in interstellar clouds. (A15). [Data] 464570
Hydrogen densities in molecular clouds inferred from CO observations. (A15). 467914
- hydrogen deuteride**
Rotationally excited HD toward zeta Ophiuchi. (A15). [Data] 464691
- hydroxyl radicals**
Copernicus observational searches for OH and H_2O in diffuse clouds. (A15). 478341
- instability**
Radiation-driven instabilities in interstellar space. (A15). 471813
- interstellar magnetic fields**
Ambipolar diffusion in interstellar clouds: A new solution. (A15). 478302
- isomers**
Metastable isomers: A new class of interstellar molecules. (A15). 489502
- magnesium**
Studies of interstellar magnesium absorption in the ultraviolet from a balloon-borne platform. (A15). 471886
- masers**
Interstellar molecules and masers. (A12, A15). 467272
VLBI aperture synthesis observations of H_2O masers associated with

- molecular clouds. (A15; W51, ON2, CRL 2591, W3). 475436
mechanics
 Global dynamics of the interstellar gas, magnetic field, and cosmic rays. (A15). 467860
methanol
 Interstellar methyl alcohol. (A15). [Data] 464576
 Two new methanol transitions in Orion A. (A15). [Data] 464598
molecules
 Collisional growth of giant molecular clouds. (A15). 489624
 Interstellar material in front of chi ophiuchi. I. Optical observations. (A15). [Data] 464573
 Interstellar molecules. (A15). [Data] 460065
 Interstellar molecules and masers. (A12, A15). 467272
 Interstellar molecules. (A15). 485932
 Nonequilibrium chemistry in shocked molecular clouds. (A15). 467835
 Observations of interstellar HNC, DNC, and HN^{13}C : Temperature effects on deuterium fractionation. (A15). 489634
 On the possibility of submillimetric interstellar lines detection by means of laser heterodyne techniques. (A15). 467792
nitrogen
 Search with COPERNICUS for interstellar N_2 in diffuse clouds. (A15). [Data] 464617
radiation transport
 Theoretical models of interstellar shocks. I. Radiative transfer and UV precursors. (A15). 467937
radiowave radiation
 Observations of the radiowave lines. (A15). 467788
scattering
 Interstellar scattering, the North Polar Spur, and a possible new class of compact galactic radio sources. (A15). 489613
scintillations
 Interstellar scintillation and compact sources in supernova remnants. (A15). 489448
shock waves
 Nonequilibrium chemistry in shocked molecular clouds. (A15). 467835
 Shock waves in the interstellar medium. (A15). [Data] 464644
 Theoretical models of interstellar shocks. I. Radiative transfer and UV precursors. (A15). 467937
stellar winds
 Interaction of a strong stellar wind with the interstellar medium. (A15). 460144
sulfur oxides
 Rotational temperature of sulfur dioxide in OMC-1. (A15). [Data] 464640
supernova remnants
 Hot interstellar medium. (A15). [Data] 489513
ultraviolet radiation
 Interstellar extinction in the UV. (A15). 475405
 Voyager observations of the interstellar medium in the 500 - 1700 - Å spectral region. (A15). 464659
water
 Copernicus observational searches for OH and H_2O in diffuse clouds. (A15). 478341
- INTERSTITIAL CELL STIM HORMONE:**
 See LH
- INTERSTITIALS:**
- activation energy**
 The measurement of the activation volume of interstitials in electron irradiated platinum. (B25). 469431
diffusion
 Explicit studies of the quantum theory of light interstitial diffusion. (A13). 474750
 On the theory of diffusion of light interstitials in metals. (A13). 474900
 Small-polaronic diffusion of light interstitials in bcc metals. (A13). 477873
ion channeling
 Lattice location of interstitial foreign atoms by ion channeling employing nuclear reaction. (A13). 481171
physical radiation effects
 Growth kinetics of dislocation loops and voids - the role of divacancies. (B25). [Data] 494176
 Interaction of self-interstitials with oxygen atoms in electron-irradiated zirconium. (B25). 484307
recombination
 Recombination of vacancies and interstitials in a primary cluster of radiation-induced defects. (A13). 474910
thermodynamics
 Thermodynamics of light interstitials. (A13). 467448
- INTERUNIVERSITARY REACTOR INST:**
 See IRI
- INTESTINAL ABSORPTION:**
- biological radiation effects**
 Effect of ionizing radiation on the transport function in the intestine. (C14). 469669
calcium chlorides
 A simplified method for the determination of intestinal calcium absorption. (C45, C62, C21). 494379
radionuclide kinetics
 Menkes' disease in Mottled mice and man. (C21). 484558
- INTESTINES:**
 See also LARGE INTESTINE; RECTUM; SMALL INTESTINE
biomedical radiography
 Angiography in acute ileus. (C61). 480235
delayed radiation effects
 Related radiation effects on the intestine and their treatment. (C15). 466146
lymphocytes
 Immediate IgA precursor cells in rabbit intestinal lamina propria. (C14). [Data] 463113
radiation injuries
 Management of radiation injuries to the bowel associated with treatment of uterine carcinoma by radiotherapy: preliminary communication. (C15). [Data] 463201
radiation syndrome
 Effect of dose rate on intestinal tolerance in mice. Implications in radiotherapy. (C14). 463190
radionuclide kinetics
 Source of fecal gallium - clinical implications: concise communication. (C21, C62; Gallium-67 kinetics in rats). 469798
- INTRAVENOUS INJECTION:**
- blood flow**
 Blood inflow into intra-arterial catheters following injection of contrast medium. (C61). 480214
- INVAR:**
- crystal models**
 A model of magnetic inhomogeneous structure for Fe-Ni Invar alloys. (B22, A13). 484216
crystal-phase transformations
 Structural inhomogeneity in invar alloys studied by positron annihilation. (A13). 462237
debye temperature
 X-ray characteristic temperature of Fe-Ni alloys with different crystal lattices. (B22). 476289
hydrogenation
 The effect of hydrogen on the properties of Invar alloys. (B22, A13). 484259
lattice vibrations
 Lattice dynamics in ferromagnetic Invar alloys. (B22, A13). 484187
magnetic moments
 A model of magnetic inhomogeneous structure for Fe-Ni Invar alloys. (B22, A13). 484216
magnetic properties
 Moessbauer studies at high pressure. Final report. (B22). 472646
 Studies of magnetic alloys by diffuse neutron scattering. (A31, A13). 490007
magnetism
 Temperature dependence of effective fields on ^{57}Fe nuclei and magnetism of deformed invar alloys. (B22). 484224
magnetization
 Magnetic form factor of $\text{Fe}_{\text{sub}}(0.66)\text{Ni}_{\text{sub}}(0.34)$ Invar alloy. (B22, A13). 484211
 Moessbauer spectroscopy of Fe-Ni and Fe-Pt alloys. (B22, A13). 484201
magnons
 Magnetic excitations in Invar alloys, $\text{Fe}_{83}\text{Ni}_{17}$ and Fe_3Pt . (B22, A13). 484210
moessbauer effect
 The effect of hydrogen on the properties of Invar alloys. (B22, A13). 484259
 High pressure studies of Invar-related systems. (B22, A13). 484209
 Moessbauer spectroscopy of Fe-Ni and Fe-Pt alloys. (B22, A13). 484201
 Moessbauer study of $\gamma\text{Fe-Ni}$ alloys. (B22, A13). 484207
 Thermal expansion, elastic properties and the Moessbauer effect of stainless Invar. (B22, A13). 484206
neutron diffraction
 Studies of magnetic alloys by diffuse neutron scattering. (A31, A13). 490007
order parameters
 Short range order in a 70-30 FeNi alloy. (A13). 471539
phase diagrams
 Electron irradiation effects on iron-nickel Invar alloys. (B25, A13). 484305
physical radiation effects
 Electron irradiation effects on iron nickel Invar. (B25). [Data] 494106
 Electron irradiation effects on iron-nickel Invar alloys. (B25, A13). 484305
small angle scattering
 Small angle neutron scattering in invar alloys. (B25). 472741
thermal expansion
 Thermal expansion, elastic properties and the Moessbauer effect of stainless Invar. (B22, A13). 484206
young modulus
 Thermal expansion, elastic properties and the Moessbauer effect of stainless Invar. (B22, A13). 484206
- INVARIANCE PRINCIPLES:**
 See also CP INVARIANCE; DETAILED BALANCE PRINCIPLE; GAUGE INVARIANCE; LORENTZ INVARIANCE; P INVARIANCE; SCALE INVARIANCE; T INVARIANCE
- INVERSE SCATTERING PROBLEM:**
 (Problem of determining scattering potential from phase shifts.)
accuracy
 Increasing accuracy of a solution of the scattering inverse problem. (A33). 493319
coulomb field
 The use of Coulomb wavefunctions in momentum space for two-particle scattering. (A32). 493132
dirac operators
 Completely integrable Hamiltonian systems, connected with the non-self-adjoint Dirac operator. (A11). 467047
feinberg-pais theory
 A new approach to peratization technique. (A21). 462559
integral transformations
 On the inverse scattering transform, the cylindrical Korteweg-de Vries equation and similarity solutions. (A11). 488640

- lorentz invariance**
On relativistic-invariant formulation of the inverse scattering transform method. (A11). 488653
- matrices**
Pseudopotentials for the general AKNS system. (A11). 483106
- scattering lengths**
A new approach to peratization technique. (A21). 462559
- schrödinger equation**
Recovery of interaction by resonance parameters. (A33). 493320
- solitons**
Classical theory of solitons. (A21). 462556
- INVERTEBRATES:**
See also more specific entries as listed in the *INIS Thesaurus*.
- population dynamics**
Analysis of populations of boring and fouling organisms in the vicinity of Oyster Creek Nuclear Generating Station. Annual progress report, September 1, 1977 - August 31, 1978. (C52, B32, E22). [Data] 487501
- INVERTERS:**
(Excludes AC to DC converters for which use RECTIFIERS.)
- specifications**
Design of inverters for MHD generators. (A16). 493020
- IODATES:**
(Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.)
- aqueous solutions**
Physicochemical study of ternary aqueous systems containign rare element iodates. (B12). 478987
- crystal structure**
Neutron diffraction investigation of crystal structure of potassium acid iodates $\alpha\text{-KIO}_3\text{HIO}_2$. (B12, A13). 486671
- formation heat**
Calorimetric determination of standard formation enthalpy of cesium iodate. (B12). 476054
- pyrolysis**
Thermal decomposition of magnesium iodate. (B12). [Data] 490385
- radiolysis**
Crystal water effect on radiation chemical processes in inorganic salt crystals. (B14). 479175
- thin-layer chromatography**
Behaviour of iodide, iodate and periodate in TLC with alcohol-aqueous ammonia eluent. (B11). 493477
- IODIC ACID:**
- calorimetry**
The standard enthalpy of ionization of water at 298 K from calorimetric measurements on iodine pentoxide. (B12). 460450
- IODIDES:**
See also *ANTIMONY IODIDES; BISMUTH IODIDES; CADMIUM IODIDES; CESIUM IODIDES; HAFNIUM IODIDES; INDIUM IODIDES; LEAD IODIDES; LITHIUM IODIDES; MERCURY IODIDES; MOLYBDENUM IODIDES; NEPTUNIUM IODIDES; POTASSIUM IODIDES; PRASEODYMIUM IODIDES; RUBIDIUM IODIDES; SAMARIUM IODIDES; SILVER IODIDES; SODIUM IODIDES; TANTALUM IODIDES; TUNGSTEN IODIDES; YTTERBIUM IODIDES; ZIRCONIUM IODIDES*
- ion-molecule collisions**
Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
- separation processes**
Effect of physicochemical ion properties on separation during drop priming. (B12). 478964
- thin-layer chromatography**
Influence of various eluents on TLC thyroxine, triiodothyronine and iodide Pt. 1. (B12). 468814
- IODINATED ALIPHATIC HYDROCARBO:**
See *ORGANIC IODINE COMPOUNDS*
- IODINATED HYDROCARBONS:**
See *ORGANIC IODINE COMPOUNDS*
- IODINE:**
Electronic to vibrational energy transfer from $\text{I}(5^2\text{P}_{3/2})$. III. H_2 , HD, and D_2 . (A12). 477752
- Reference facility descriptions for iodine, carbon-14 and krypton radioactive gaseous wastes. Final report. (B16, E51). 479330
- activation analysis**
Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
- Groundwater tracing with post-sampling activation analysis using bromide and iodide ions injected simultaneously into a shallow-well system. Master's thesis. (B31, B11). 469516
- adsorption**
Activated carbon material. (B12, E51; Patent). 460458
- The assessment of the acceptability of performance of installed iodine trapping plant. (C52). 494412
- biological effects**
Pathophysiologic effects of stable iodine used as a thyroidal blocking agent to reduce thyroid radiation exposure. Final progress report, November 1, 1976 - December 31, 1977. (C15). 487234
- chemical reaction kinetics**
Accuracy of trajectory calculations and transition state theory for thermal rate constants of atom transfer reactions. (B12). 460537
- chemical reactions**
Interaction in the $\text{In}_2\text{Se}_3\text{-I}_2$ system. (B12). 478951
- Rate constants for the scavenging of radicals by iodine. (B10). 472316
- chemisorption**
Effect of carbon dioxide on the rate of iodine vapor absorption by aqueous solution of sodium hydroxide. (B12). 462702
- Iodine absorption in mixed solution of sodium hydroxide-boric acid. (B12). 462703
- Kinetics of absorption of trace iodine vapor in aqueous solution of sodium hydroxide, 1. (B12). 472443
- Kinetics of absorption of trace iodine vapor in aqueous solution of sodium hydroxide, (2). (B12). 462701
- comparative evaluations**
Tracing underground water movement using three NAA-detected halogen tracers. (B32). 472852
- coster-kronig transitions**
 $\text{Li-L}/\text{sub } 2,3/\text{M}/\text{sub } 4,5/$ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730
- decontamination**
A user's guide to the programs ITRAP-A, ITRAP-B, ITRAP-S and ITRAP-L. (C52). 494418
- dissociation**
Experimental investigation of iodine and bromine molecule dissociation in $\text{I}_2\text{-He}$ and $\text{Br}_2\text{-He}$ mixtures at high temperature. (B12). 486601
- Halogen recombination: dissociation reactions. Current status. (B12). 460445
- Laser spectroscopy and predissociation of molecules. (A12). 485480
- electron-molecule collisions**
 $\text{M}/\text{sub } 4,5/\text{N}/\text{sub } 4,5/\text{X}$ Auger electron spectra of iodine and xenon Many-body effects. (A12). 488745
- electronic structure**
Sequential absorption spectroscopy of two photons in I_2 . (A12). 471330
- emission spectroscopy**
Plasma atomic emission spectrometric determination of sulfur in the vacuum ultraviolet region of the spectrum. (B11; Determination of Hg, Se, As, I and P). 472340
- filters**
The assessment of the acceptability of performance of installed iodine trapping plant. (C52). 494412
- Assessment of the acceptability of performance of installed iodine trapping plant. (C52). 469922
- fission products**
Evaluated neutron cross sections and resonance integrals of the fission products with $Z=51\text{-}56$. (A33). [Data] 493206
- hadronic atoms**
Hadronic atoms. (A12, A22). 477842
- hot atom chemistry**
High energy halogen atom reactions activated by nuclear transformations. Progress report, February 15, 1978 - February 14, 1979. (B13). 486718
- hyperfine structure**
Laser spectroscopy and predissociation of molecules. (A12). 485480
- in vivo**
Measurement of stable iodine content of tissue by coherently and Compton scattered photons. (B11, C61). 490306
- ion-atom collisions**
 $\text{Li-L}/\text{sub } 2,3/\text{M}/\text{sub } 4,5/$ Coster-Kronig transition thresholds in the region $37 < \text{or} = Z < \text{or} = 56$. (A12). 477730
- ion-ion collisions**
Interpretation of the anisotropy of M MO radiation in slow I on Au collisions. (A12). 483174
- ion-molecule collisions**
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- ionization**
Sequential multiphoton ionization spectroscopy: extension of a useful spectroscopic tool. (A12). 477841
- molecule collisions**
Generalized transition state theory. Quantum effects for collinear reactions of hydrogen molecules and isotopically substituted hydrogen molecules. (B12). 486600
- neutron activation analysis**
Bromine and iodine contents of sedimentary rocks from Tomioka, Gunma Prefecture, Japan. (B11). 468586
- Determination of iodine in geological samples using neutron activation analysis and an induction furnace. (B11). [Data] 465255
- p invariance**
Space and time parity nonconservation effects in the diatomic molecule spectra. (A11, A12). 492424
- quantitative chemical analysis**
Measurement of stable iodine content of tissue by coherently and Compton scattered photons. (B11, C61). 490306
- A mechanized catalytic detection principle for the accurate determination of trace iodine in inorganic and organic matrices. (B11). 478816
- Recovery of iodine as iodine-125 from biological materials prior to assay. (B13, B11). [Data] 468912
- quantity ratio**
Determination of iodine in biological samples by resonance neutron activation. (B11). 483962
- radiation monitoring**
Iodine and cesium in oxide fuel pellets and zircaloy-4 cladding of irradiated fuel rods (LWBR Development Program). (B11). 486513
- radioactive waste processing**
Aerosol and iodine removal system for the dissolver off-gas in a large fuel reprocessing plant. (B16, E51). 479332
- recombination**
Halogen recombination: dissociation reactions. Current status. (B12). 460445
- solvent extraction**
Solvent extraction behaviour of iodine and bromine in aqueous-organic systems, analogy with radioactive decay. (B12). [Data] 479060

- spectroscopic factors**
 Sequential absorption spectroscopy of two photons in I₂. (A12). 471330
- t invariance**
 Space and time parity nonconservation effects in the diatomic molecule spectra. (A11, A12). 492424
- thyroid**
 Determination of the concentration of ¹²⁷I in thyroid tissue by XRF method and NaI(Tl) scintillation detector. (B11). [Data] 472364
- trace amounts**
 A mechanized catalytic detection principle for the accurate determination of trace iodine in inorganic and organic matrices. (B11). 478816
- uptake**
 Increased iodine pool in patients studied between 1969 and 1977. (C31). 494362
- van der waals forces**
 Quasiclassical trajectory study of vibrational predissociation of van der Waals molecules: Collinear H₂xxI(B ³Pi). (A12). 488928
- vapors**
 On interaction in gaseous phase in the antimony(bismuth) iodide-chalcogen systems. (B12). 490326
- volatility**
 Iodine and ruthenium volatility in thorium fuel reprocessing. Interim development report. (B16, E50). 486829
 On iodine volatility from nitric acid fission-product solutions. (B16). 486825
- washout**
 Kinetics of iodine removal by washing with water. (B12). 468686
- IODINE BROMIDES:**
 Angular distributions, energy disposal, and branching studied by photoelectron-photoion coincidence spectroscopy: O₂⁺, NO⁺, ICl⁺, IBr⁺, and I₂⁺ fragmentation. (A12). [Data] 463980
- IODINE CHLORIDES:**
 Angular distributions, energy disposal, and branching studied by photoelectron-photoion coincidence spectroscopy: O₂⁺, NO⁺, ICl⁺, IBr⁺, and I₂⁺ fragmentation. (A12). [Data] 463980
- fluorescence**
 Zero pressure lifetimes and fluorescence quenching of ICl(A ³Pi). (B12). 478952
- IODINE COMPOUNDS:**
See also more specific entries as listed in the INIS Thesaurus.
- crystal structure**
 Crystal- and molecular structure of bis-(dimethylglyoximate) diamminerhodium (3) iodide. (B12). 465302
- ion-molecule collisions**
 Crossed molecular beam studies of unimolecular reaction dynamics. (A12; Angular and velocity distributions). [Data] 477715
- magnetic properties**
 Magnetic ordering in Fe₂B₂O₇I ferroelectric boracide. (A13). 464186
- IODINE IODIDES:**
See IODINE
- IODINE IONS:**
 Angular distributions, energy disposal, and branching studied by photoelectron-photoion coincidence spectroscopy: O₂⁺, NO⁺, ICl⁺, IBr⁺, and I₂⁺ fragmentation. (A12). [Data] 463980
- electron loss**
 Absolute charge state yields of 20 MeV ¹²⁷I ions emerging from a gas stripper. (A12). 474630
 Calculation of the cross sections for electron loss by fast multiply charged ions. (A12). 463975
- ion-atom collisions**
 Electron-detachment in differential I⁺+Ne cross section measurements. (A12). 488923
- Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754**
- ion-molecule collisions**
 Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754
- positron-ion collisions**
 Solvated positron chemistry. II. (A12). 467265
- IODINE ISOTOPES:**
See also IODINE 119; IODINE 121; IODINE 122; IODINE 123; IODINE 125; IODINE 127; IODINE 129; IODINE 130; IODINE 131; IODINE 132; IODINE 133; IODINE 136; IODINE 137
- air filters**
 Particle filter for the adsorption of radioactive impurities of a gas flow. (E13). 482561
- chemical state**
 Chemical states of short-lived iodine isotopes formed by thermal neutron irradiation of uranyl acetate solution. (B12, B11). 465410
- collective model**
 Collective properties of odd-mass Sb, I, Cs, and La nuclei. (A34; Bands, quasi-proton states, unexpected properties). [Data] 493404
- decontamination**
 System for ventilating air contaminated with radioactivity. (E13). 473636
- filtration**
 Apparatus for reducing radioactive gaseous wastes. (E51). 477462
- separation processes**
 Chemical states of short-lived iodine isotopes formed by thermal neutron irradiation of uranyl acetate solution. (B12, B11). 465410
- solvent extraction**
 A review of the solvent extraction process chemistry of fission products. (B16). 486811
- washout**
 Device for inhibiting discharge and diffusion of radioactivity. (E22). 473785
- IODINE OXIDES:**
- calorimetry**
 The standard enthalpy of ionization of water at 298 K from calorimetric measurements on iodine pentoxide. (B12). 460450
- IODINE 119:**
- energy levels**
 Nuclear data sheets for A=119. (A33). 478601
- energy-level transitions**
 Nuclear data sheets for A=119. (A33). 478601
- IODINE 121:**
- charge density**
 Moessbauer charge density in ¹²⁹I. (A13). 474889
- energy levels**
 Nuclear data sheets for A=121. (A34). 486465
- isotope production**
 Production of I-121 on the Heidelberg compact cyclotron, and aspects of I-121 dosimetry. (D13). [Data] 491392
- moessbauer effect**
 Moessbauer charge density in ¹²⁹I. (A13). 474889
- nuclear structure**
 Nuclear data sheets for A=121. (A34). 486465
- IODINE 122:**
- radioisotope generators**
 The ¹²²Xe-¹²²I system: a generator for the 3.62-min positron emitter, ¹²²I. (D13). 473559
 Short-lived radionuclide generators. (D13). 476829
- IODINE 123:**
- adenomas**
 Selective uptake measurements of thyroid nodules with ¹²³I before and after pituitary suppression with T4 and T3, comparison with the TRH assay. (C62, C21). 473424
- contamination**
 Radionuclide purity and dosimetry related to the medical use of the radionuclides Fe-52, Tc-99m and I-123. (C61, C55, B13). 494497
- energy-level transitions**
 Estimation of radiation characteristics of 10 widely used radionuclides with complex decay scheme. (A33; ⁵²Mn, ⁷⁵Se, sup(110m)Ag, ¹²³I, ¹³¹Ba, ¹³²Cs, ¹⁵¹Gd, ¹⁵³Sm, ¹⁸²Re, ²³³U, Esub(γ)=21-1434 keV). 493154
- impurities**
 Calculation of the absorbed dose due to impurities in radiopharmaceuticals. (B13). 465443
- isotope production**
 Cyclotron production of ¹²³Xe(→ ¹²³I) and ¹²⁷Xe using CH₃I₂ as target material. (D13). 470236
- Method and equipment to produce the isotope iodine 123. (D13, C62). 473560**
- Preparation of carrier-free ¹²³I-sodium iodide for medical purposes. (D13). 466442**
- Simple production of ¹²³Br and ¹²³I- and their use in the labelling of [¹²³Br]BrUdR and [¹²³I] IUdR. (D13). [Data] 470232**
- Targets for producing high purity ¹²³I. (D13; Patent). 480285**
- labelling**
 Production of ¹²³Xe(¹²³I) by spallation reactions at 1 GeV proton energy and synthesis of compounds labelled by ¹²³I. (A34, B13, D13). 465080
- radiation doses**
 Radionuclide purity and dosimetry related to the medical use of the radionuclides Fe-52, Tc-99m and I-123. (C61, C55, B13). 494497
- radionuclide kinetics**
 Experimental estimation of iodine ¹²³I. (C21). 482107
- scintiscanning**
 Clinical uses of I-123 produced by ¹²⁷(p, 5n)¹²³Xe to ¹²³I reaction in NIRS. (C31). 476630
- thyroid**
 Limits of dose reduction in ¹²³I iodide diagnoses of the thyroid. (C62, C55). 461411
- tracer techniques**
 Detection of atherosclerotic plaques in carotid arteries by the use of labelled fibrinogen. (C45; iodine 123). 473153
- IODINE 125:**
- autoradiography**
 In situ hybridization of cytosol- and chloroplast-ribosomal RNA with isolated nuclei in Euglena gracilis. (C45). 491107
 The use of estimating the sensitivity of tumours to cytostatics with ¹²⁵I-iododeoxyuridine in the clinical and research work. (C62). 476781
- biological radiation effects**
 DNA strand breaks induced by ¹²⁵I in cultured human kidney cells and their repair. (C21, C11). 466229
- buildup**
 Thyroid measurements of iodine-125 workers. (C21). 482083
- diagnostic techniques**
 On the dragnosis of deep vein thrombosis. (C62). 491342
- environment**
 Behavior of technetium and iodine in a Hanford sand and associated subsoil: influence of soil aging on uptake by cheatgrass and tumbleweed. (B31, C22, C21, B13). [Data] 479569
- flow counters**
 Method for selection of nuclear radiation from certain gaseous radionuclides, brought into a counting tube together with a carrier gas, by discrimination according to pulse shape as well as application of this method by using a flow counter. (E41). 485029
- isodose curves**
 Dose inhomogeneity in interstitial implants using ¹²⁵I seeds. (D15, D14, C64). 473576
- labelled compounds**
 Investigation of the hepatobiliary system by means of ¹²⁵I-labelled Bengal rose. (C62). 470184
 Micro-electrolytic iodination of polypeptide hormones. (B13). 484086

| | |
|--|--------|
| labelling | |
| Distribution of iodine-labelled fibrinogen in rat during endotoxin shock. (C21). | 482104 |
| A pigeon crop sac radioreceptor assay for prolactin. (C45). | 487348 |
| lth | |
| Binding of [125 I] rat prolactin and [125 I] ovine prolactin to their specific receptors and antibodies. (C31). | 479974 |
| maximum permissible body burden | |
| 125 I thyroid intakes: consideration of thyroid radiation dose, and air and water concentration limits. (C45, C15). [Data] | 466260 |
| maximum permissible concentration | |
| 125 I thyroid intakes: consideration of thyroid radiation dose, and air and water concentration limits. (C45, C15). [Data] | 466260 |
| maximum permissible dose | |
| 125 I thyroid intakes: consideration of thyroid radiation dose, and air and water concentration limits. (C45, C15). [Data] | 466260 |
| metabolism | |
| Effect of low and high ambient temperatures on metabolism of radioiodine by the lactating goat. (C21; 125 I). [Data] | 476616 |
| neoplasms | |
| Investigation of the growth kinetics of a solid experimental tumor by non-invasive methods. (C45). | 466261 |
| oxytetracycline | |
| [125 I] 7-iodo-6-demethyl-6-deoxytetracycline HCl: its use in the study of bone mineralization. (C62, B13). | 484721 |
| point sources | |
| Production of 125 I point sources for the application in a bone mineral-analysator. (D14). | 487785 |
| rabbits | |
| Behaviour of homologous 125 I fibrinogen after thrombin and anicrod infusion in rabbits. (C62). | 473475 |
| radiation doses | |
| 125 I thyroid intakes: consideration of thyroid radiation dose, and air and water concentration limits. (C45, C15). [Data] | 466260 |
| radiation hazards | |
| Radiation hazard from 125 I application in in vitro tests. (C21). | 484559 |
| radioassay | |
| Problems of 125 I measurement on sample changers in nuclear medicine laboratories. (E41). | 477358 |
| radioimmunoassay | |
| Radioimmunoassay for Ascaris specific protein and its clinical approach to gastro-intestinal diseases. (C62). | 473484 |
| radiopharmaceuticals | |
| [125 I] 7-iodo-6-demethyl-6-deoxytetracycline HCl: its use in the study of bone mineralization. (C62, B13). | 484721 |
| Imaging the adrenal medulla with an I-131-labeled antiadrenergic agent. (C62; Breytilium analogs). | 473496 |
| 6-[125 I]-iodo-2-methyl-1,4-naphthoquinol bis(diammonium phosphate): a new potential anti-tumour drug. (B13). | 493751 |
| scintiscanning | |
| Efficient, gaseous detector with good low-energy resolution for (less than or equal to 50 keV) imaging. (C62, B11). | 473437 |
| Imaging the adrenal medulla with an I-131-labeled antiadrenergic agent. (C62; Breytilium analogs). | 473496 |
| spatial dose distributions | |
| Dose inhomogeneity in interstitial implants using 125 I seeds. (D15, D14, C64). | 473576 |
| sth | |
| Studies on processes of damage and the stability of two preparations of human growth hormone labelled with 125 I. (C45). | 482173 |
| surface contamination | |
| Measurement of 125 I surface contamination. (E41, C21). | 477359 |
| thyroid | |
| 125 I thyroid intakes: consideration of thyroid radiation dose, and air and water concentration limits. (C45, C15). [Data] | 466260 |
| tracer techniques | |
| Basic study on hematopoiesis-activating function of androgen. (C45). | 482176 |
| The metabolism of parathyroid hormone in kidney. (C45). | 473168 |
| Recovery of iodine as iodine-125 from biological materials prior to assay. (B13, B11). [Data] | 468912 |
| Studies on mannose glycoproteins of cultured fibroblasts. (C45). | 476654 |
| Use of 125 I or 131 I Evans blue in the evaluation of capillary permeability increase in rat skin. (C62). | 482437 |
| IODINE 127: | |
| cross sections | |
| Measurement of neutron capture cross sections with Fe-filtered beam. (A34). [Data] | 475859 |
| fluorescence spectroscopy | |
| Intracavity absorption with external fluorescence measurement for detection of radioiodine isotopes. (B11). | 493502 |
| inelastic scattering | |
| Gamma ray production cross sections in 127 I by inelastic neutron scattering. (A34). | 486355 |
| nuclear quadrupole resonance | |
| Research of quadrupole interactions in benzene derivatives using the methods of emission Moessbauer spectroscopy of 125 I and nuclear quadrupole resonance of 127 I. (B12, B13). | 479045 |
| thyroid | |
| Determination of the concentration of 127 I in thyroid tissue by XRF method and NaI(Tl) scintillation detector. (B11). | 472364 |
| x-ray fluorescence analysis | |
| Determination of the concentration of 127 I in thyroid tissue by XRF method and NaI(Tl) scintillation detector. (B11). | 472364 |
| IODINE 127 TARGET: | |
| alpha reactions | |
| Collective properties of the odd-mass Cs nuclei. I. /sup | |
| 127,129,131,133/Cs. (A34). | 468486 |
| cross sections | |
| Quasi-deuteron contribution to (γ ,n) reaction. (A33). | 472183 |
| energy-level transitions | |
| Gamma ray production cross sections in 127 I by inelastic neutron scattering. (A34). | 486355 |
| neutron reactions | |
| Angular distribution of gamma quanta in the $^{127}\text{J}(n,n'\gamma)$ reaction. (A34). | 490121 |
| Gamma ray production cross sections in 127 I by inelastic neutron scattering. (A34). | 486355 |
| 14.7-MeV neutron capture cross-section measurements with activation technique. (A31). [Data] | 478577 |
| photonuclear reactions | |
| Quasi-deuteron contribution to (γ ,n) reaction. (A33). | 472183 |
| IODINE 129: | |
| air filters | |
| The reduction of iodine emissions from nuclear facilities. (C52, E13). | 482245 |
| biological radiation effects | |
| Age-related variation in thyroidal exposures from fission-produced radioiodines. (C21; ^{129}I , ^{131}I , ^{132}I , ^{133}I). | 461083 |
| fluorescence | |
| Radioiodine detector based on laser induced fluorescence. (C52, B16, E51). | 480020 |
| fluorescence spectroscopy | |
| Intracavity absorption with external fluorescence measurement for detection of radioiodine isotopes. (B11). | 493502 |
| gamma spectroscopy | |
| Scintillation method for ^{129}I detection in environment. (C55). | 470011 |
| isomer shift | |
| Determination of the isomer shift of ^{129}I . (A34). | 490243 |
| maximum permissible concentration | |
| Suggested quantity and concentration limits to be applied to key isotopes in shallow land burial. (E52, C54). | 474265 |
| radiation monitoring | |
| Iodine-129 in thyroids and tellurium isotopes in meteorites by neutron activation analysis. (C21, A15). [Data] | 461082 |
| Methods evaluation for the continuous monitoring of carbon-14, krypton-85, and iodine-129 in nuclear fuel reprocessing and waste solidification facility off-gas. (B16, C52, E50). | 472574 |
| radiometric analysis | |
| Hyperpure germanium well detector for the radiochemical analysis of iodine-129. (B11). | 460403 |
| retention | |
| Assessing the impact of nuclear-power plants on the environment. Second annual research progress report. (C21, C52). [Data] | 473042 |
| separation processes | |
| Technical and economic evaluation of the atmospheric containment technology for radioactive isotope releases from nuclear fuel reprocessing plants. Environmental Study No. 2. (C52, B16). | 466285 |
| [Data] | |
| IODINE 130: | |
| binding energy | |
| High energy halogen atom reactions activated by nuclear transformations. Progress report, February 15, 1978 - February 14, 1979. (B13). [Data] | 486718 |
| IODINE 131: | |
| adrenal glands | |
| Effect of radioactive iodine on adrenal gland and its bioamines in normal and stressful conditions. (C21). | 482088 |
| aerial monitoring | |
| Measurements of airborne radioiodine discharged in air from capsules and solutions of Na ^{131}I and from patients treated with ^{131}I . (C55). | 482279 |
| air filters | |
| Method and device for removing radioactive iodine and radioactive organic iodides from gases. (E13, E30). | 487854 |
| The reduction of iodine emissions from nuclear facilities. (C52, E13). | 482245 |
| antibody formation | |
| Radioiodine effect on the autoimmune component in patients with toxic goiter. (C45). | 482184 |
| biological localization | |
| Comparison of the distribution of diagnostic and thyroablative ^{131}I in the evaluation of differentiated thyroid cancers. (C62, C64, C21). | 473466 |
| The heparin-dependent inhibition of the accumulation of ^{131}I -fibrinogen in the solid form of Walker-256-carcinoma of the rat. (C21). | 469756 |
| biological radiation effects | |
| Age-related variation in thyroidal exposures from fission-produced radioiodines. (C21; ^{129}I , ^{131}I , ^{132}I , ^{133}I). | 461083 |
| Treatments of hyperthyroidism with iodine-131. (C21). | 473065 |
| biomedical radiography | |
| Some pharmacological preparations uses with the purpose of adrenal gland visualization improvement with 19-iodocholesterol- ^{131}I . (C62). | 470160 |
| blood flow | |
| Bone clearance and bone scintiscanning during healing of fractures. (C62). | 470117 |
| blood-plasma clearance | |
| Hepatology. (C61; Radionuclide studies). | 482315 |
| chemical reactions | |
| Relative reactivities of radioiodine released from U $_3$ O $_8$ in oxygen and helium atmospheres toward propane. (B13). | 481710 |
| coolants | |
| Investigation of the behaviour of inorganic forms of radioiodine in the coolants circuits of pressurized water reactors. (B13, E32). | 462753 |

- decontamination**
Apparatus for decontamination of the urine after radioiodine treatment of thyroid cancer. (E51). 474213
Wound adsorption of radioisotopes of alkaline elements, alkaline earth elements, and halogens, and assessment of capabilities for limiting their uptake. (C21). 466200
- delayed radiation effects**
Changes in physical endurance of rats in remote times after external γ -irradiation combined with internal irradiation with iodine 131. (C14). 484506
- deposition**
Radiation measurements following the Three Mile Island reactor accident. (B33, B31, C52). [Data] 494239
- digitalis glycosides**
On the scintiscanning of the adrenal glands with radioiodine tyramine derivatives of some digitalis aglycae and their glycosides. (B13). 460566
- distribution functions**
Solvent extraction behaviour of iodine and bromine in aqueous-organic systems, analogy with radioactive decay. (B12). [Data] 479060
- early radiation effects**
Characterization of acute radiation damage by whole-body irradiation combined with internal exposure to strontium-89, iodine-131, or cerium-144. (C14, C21). 466025
- environment**
Modeling Dresden-Monticello data for ^{131}I transport from pasture to milk. (B31). 472836
- environmental exposure pathway**
Excretion of ^{131}I by freshwater catfish (*Ictalurus punctatus*) and bluegill (*Lepomis macrochirus*). (C21). 487299
- evaporation**
Concentrations of I-131 in the air during thyroid therapies. (C55). [Data] 466365
- fuel rods**
B 34/78 Fuel model studies. Migration of I-131 in fuel rods with burn-ups of 5-30 MWd/kg U re-irradiated at power of 40-60 kW/m for up to five days. (E23, E21). [Data] 491782
- gamma dosimetry**
Dosimetry of ^{131}I in the thyroid with TLD dosimeters. (C55). 473305
- half-life**
Half life of ^{132}Te . (A34). [Data] 493393
- hyperthyroidism**
Standard dose ^{131}I therapy for hyperthyroidism caused by autonomously functioning thyroid nodules. (C64). 473529
- hypothyroidism**
The risk of hypothyroidism after I-131 therapy of hyperthyroidism. (C64). 482493
- kidneys**
Radioisotope applications in nephrology. (C62, C61). 482422
- labelled compounds**
Investigation of the hepatobiliary system by means of ^{125}I -labelled Bengal rose. (C62). 470184
Some pharmacological preparations uses with the purpose of adrenal gland visualization improvement with 19-iodocholesterol- ^{131}I . (C62). 470160
- labelling**
Catalysts in radiohalogen labelling. (B13). [Data] 472486
- milk**
A rapid method for sensitive radioiodine determination in milk using extraction with a liquid anion exchanger and liquid scintillation technique. (B11). 478852
- off-gas systems**
System for the separation of gaseous hydrocarbons and radioactive iodine isotopes from waste air. (E13, E22). 461513
- personnel dosimetry**
Radiation hazard monitoring in ^{131}I therapy in and out clinic. (C55, C54). 463418
- personnel monitoring**
Effect of thyroid depth on error in ^{131}I activity measurement. (E41). 495062
- preventive medicine**
Pharmacological protection of the pregnant female and fetus against internal radioactive iodine. (C21). 466201
- quantitative chemical analysis**
A study on analytical methods of radioiodine in a high-temperature, high-pressure water in-pile loop. (B11). 468682
- radiation doses**
Radiation doses of nuclear power plant "Kozloduj" personnel from internal ^{131}I iodine. (C52, C55). 466333
- radiation monitoring**
Environmental radioiodine monitoring to control exposure expected from containment release accidents. Final report. (C22, C21, C52; Adult human thyroid dose commitments from ^{131}I -contaminated forage-cow-milk-man food chain). [Data] 476625
Particulate radioactivity, mainly from nuclear explosions, in air and precipitation in Sweden mid-year 1975 to mid-year 1977. (B33). [Data] 476480
- radiation monitors**
A monitor of airborne ^{131}I . (E41). [Data] 477405
- radiation protection**
Radiation hazard monitoring in ^{131}I therapy in and out clinic. (C55, C54). 463418
- radioactivity**
 ^{131}I concentration in air measured at the ward during ^{131}I treatment. (C55). 482277
Measurements of airborne radioiodine discharged in air from capsules and solutions of Na^{131}I and from patients treated with ^{131}I . (C55). 482279
- radiocardiography**
Study of the cardiovascular system. (C62). 482424
- radioecological concentration**
Animal Investigation Program 1976 annual report: Nevada test site and vicinity. (C22, C21; Radioanalysis of tissues from animals residing on or near NTS in 1976). 461121
Environmental radioiodine monitoring to control exposure expected from containment release accidents. Final report. (C22, C21, C52; Adult human thyroid dose commitments from ^{131}I -contaminated forage-cow-milk-man food chain). [Data] 476625
- radiometric analysis**
Measurement of the concentration of airborne radioiodine. (B33). 472895
- radionuclide migration**
Containment of gaseous fission products in caverns. (B31). 462973
- radiopharmaceuticals**
Imaging the adrenal medulla with an I-131-labeled antiadrenergic agent. (C62; Bretlyium analogs). 473496
In vitro stability of ^{131}I -hippuric-acid-iodohippurate. (B13, C62). 486707
Reinvestigation of the preparation of ^{131}I -4-iodoantipyrine from ^{131}I -iodide. (B13). 484084
- radiotherapy**
Indices of cellular immunity following radioiodine therapy of thyrotoxicosis. (C45). 466263
Thyroid-hormone concentrations after radioiodine therapy for hyperthyroidism. (C21, C64, C62, C31). 487312
- renal clearance**
Improved interpretation of renal-vein-renin-ratio by simultaneous determination of renal ^{131}I -hippuric-acid-clearance-ratio in patients with renovascular hypertension. (C62). 470106
Renal function changes associated with aging and ionizing radiation. (C14; Gamma radiation, beagles, ^{131}I tracer technique). 479844
- retention**
Assessing the impact of nuclear-power plants on the environment. Second annual research progress report. (C21, C52). [Data] 473042
- sampling**
Air sampling system for evaluating the thyroid dose commitment due to fission products released from reactor containment. Final report. (E41, B33, C21, C52). 474058
- scintiscanning**
 ^{131}I -19-iodocholesterol scintigraphy and suprarenal pathology. (C62). 484747
Circulation of the medullary cerebrospinal fluid. Comparative study of various tracers. (C62). 491304
Clinical comparison of /sup 99mTc-diethyl-iminodiacetic acid, /sup 99mTc-pyridoxylideneglutamate, and ^{131}I -rose bengal in liver transplant patients. (C62, C31). 470122
Clinical studies on hemodynamic assessments of valvular heart disease by means of radiopulmonary cardiography (RPCG). (C62). 476788
Comparison of /sup 99mTc diethyl-iminodiacetic acid and ^{131}I rose bengal for hepatobiliary studies in liver-transplant patients: concise communication. (C62, C21). 473446
Comparison of the distribution of diagnostic and thyroablative ^{131}I in the evaluation of differentiated thyroid cancers. (C62, C64, C21). 473466
A comparison of 3 display methods of assessing renal function. (C45). 469879
Concentration of radiolabeled cholesterol in a feminizing adenoma of the testis. (C62, C21; 19- ^{131}I -iodocholesterol). 473455
Correlation between scintigram and pathology of the chronic thyroiditis (Hashimoto's disease). (C62). 491337
Diagnostic evaluation of the adrenal scanning using ^{131}I -adosterol. (C62). 491357
Imaging the adrenal medulla with an I-131-labeled antiadrenergic agent. (C62; Bretlyium analogs). 473496
Quantitative scintiscanning in the diagnosis of adrenal cortex lesions. (C62). 470071
Radioisotope renogram and sequela of acute renal insufficiency. (C62). 482331
Scintigraphic diagnosis of suprarenal tumours. Comparative advantages of ^{131}I -19-iodocholesterol and 6-methyl- ^{75}Se -selenocholesterol. (C62). 484725
Sup(99m)Tc and I-131 in thyroid nodule scintiscanning. (C62). 484720
- selenium 75**
Survey of 26 suprarenal scintigraphs on Cushing's syndrome patients. (C62). 484761
Thyroid abnormalities following neck irradiation for Hodgkins's disease. (C15, C63, C62; Complications arising 2 to 16 years following irradiation). 461072
Thyroid function study. (C62). 482420
- separation processes**
Method for the separation of radioactive iodine isotopes. (E13). 461517
Method to remove methyl iodide ^{131}I gas. (E13). 470332
- skin absorption**
Wound adsorption of radioisotopes of alkaline elements, alkaline earth elements, and halogens, and assessment of capabilities for limiting their uptake. (C21). 466200
- thyroid**
Dosimetry of ^{131}I in the thyroid with TLD dosimeters. (C55). 473305
Effect of single dose of radioactive iodine (^{131}I) on thyroid function of locally bred rats. (C21). 482097
Effect of the ingestion of soybeans derivatives (Glycine max) on rat thyroid. (C21). [Data] 461090
More precise ^{131}I activity measurement in the thyroid. (E41). 463701

- Radionuclide diagnoses of the thyroid - indications and diagnostic value. (C62). 461407
- Thyroid function study. (C62). 482420
- Thyroid suppression test with dextrothyroxine. (C62, C61). 482427
- tracer techniques**
- Scintigraphic estimation of thyroid volume and dose distribution at treatment with ^{131}I . (C62). 461416
- Study of urodynamics by radioactive indicators. (C62). 482345
- Trials with radionuclides in the study of peripheral arterial perfusion and venolymphatic drainage. (C62). 482429
- Use of ^{125}I or ^{131}I Evans blue in the evaluation of capillary permeability increase in rat skin. (C62). 482437
- uptake**
- Effect of the ingestion of soybeans derivatives (Glycine max) on rat thyroid. (C21). [Data] 461090
- Kinetics of dog thyroid secretion in vitro. (C21; ^{131}I). 469801
- Radioiodide treatment of pulmonary metastases of differentiated thyroid cancer. (C64, C21). 476824
- Thyroid suppression test with dextrothyroxine. (C62, C61). 482427
- valence**
- The oxidation state of fission fragment iodine in potassium chloride. (B13). [Data] 460577
- vascular diseases**
- Trials with radionuclides in the study of peripheral arterial perfusion and venolymphatic drainage. (C62). 482429
- IODINE 132:**
- biological radiation effects**
- Age-related variation in thyroidal exposures from fission-produced radioiodines. (C21; ^{129}I , ^{131}I , ^{132}I , ^{133}I). 461083
- quadrupole moments**
- Nuclear moments in the doubly odd ^{132}I isotope. (A34). 483909
- IODINE 133:**
- biological radiation effects**
- Age-related variation in thyroidal exposures from fission-produced radioiodines. (C21; ^{129}I , ^{131}I , ^{132}I , ^{133}I). 461083
- IODINE 136:**
- energy levels**
- Nuclear data sheets for $A=136$. (A34). 486440
- nuclear structure**
- Nuclear data sheets for $A=136$. (A34). 486440
- IODINE 137:**
- beta-minus decay**
- Investigation of beta strength functions by neutron and gamma-ray spectroscopy. I. (A34). 475828
- delayed neutron precursors**
- Does the simple statistical model describe delayed neutron emission. (A33). 483792
- IODODEOXYURIDINE:**
- radiosensitivity**
- Photochemical studies and ultraviolet sensitization of *Escherichia coli* Thymidylate kinase by various halogenated substrate analogs. (C11). 469578
- IODOFORM:**
- radiolysis**
- Radiation chemical behaviour of iodoform in cyclohexane. (B14). 468936
- IODOHIPPURATE:**
- See HIPPURAN
- IODOURACILS:**
- See also IODODEOXYURIDINE
- iodine 123**
- Simple production of ^{76}Br and ^{123}I and their use in the labelling of ^{76}Br BrUdR and ^{123}I IUdR. (D13). 470232
- radiopharmaceuticals**
- Simple production of ^{76}Br and ^{123}I and their use in the labelling of ^{76}Br BrUdR and ^{123}I IUdR. (D13). 470232
- IOGLYCAMIC ACID:**
- labelled compounds**
- Effects of steroid hormones on the binding of ioglycamide (bilitivan) to human blood serum. (C21). 469804
- progesterone**
- Effects of steroid hormones on the binding of ioglycamide (bilitivan) to human blood serum. (C21). 469804
- ION ACOUSTIC WAVES:**
- (Non-dispersive ion waves)
- acoustic heating**
- A heating mechanism of ions due to large amplitude coherent ion acoustic wave. (A14). 467726
- decay instability**
- Temporal investigation of parametric decay processes and associated heating in a magnetized plasma column. (A14). 462301
- inelastic scattering**
- Observation of scattering of ion-acoustic cylindrical solitons. (A14). 464430
- korteweg-de vries equation**
- Cylindrical solitons in a warm, multi-ion plasma. (A14). 462365
- landau damping**
- Energy properties of ion acoustic waves in stable and unstable plasmas. (A14). 478077
- magnetoacoustic waves**
- Ion-ion hybrid damping of magneto-acoustic resonances. (A14). 489262
- noise**
- Suppression of beam excited ion-acoustic noise by an externally applied RF signal. (A14). 489291
- nonlinear problems**
- Non-linear distortion of ion acoustic wave packets. (A14). 471699
- pulses**
- Response of ion acoustic waves to an impulse. (A14). 462331
- solitons**
- Damping of solitons in plasmas. (A14). 483345
- Excitation of spherical ion acoustic solitons with a conducting probe. (A14). 489385
- Observation of slow and fast cylindrical soliton-like waves. (A14). 459986
- Spherical ion-acoustic solitons. (A14). 489186
- stability**
- Stability of nonlinear ion sound waves and solitons in plasmas. (A14). 489202
- turbulence**
- Acoustic turbulence trapped in the modulated Langmuir wave and its effect on the collapse. (A14). 489228
- wave propagation**
- Non-linear distortion of ion acoustic wave packets. (A14). 471699
- Observation of parallel and perpendicular propagations of ion sound waves in a linear turbulently heated plasma. (A14). [Data] 474939
- Spherical ion-acoustic solitons. (A14). 489186
- ION BEAM INJECTION:**
- storage rings**
- Injection method of the NUMATRON. (E16). 491622
- ION BEAMS:**
- See also ARGON 40 BEAMS; CALCIUM 48 BEAMS; CARBON 12 BEAMS; CARBON 14 BEAMS; CHLORINE 35 BEAMS; DEUTERON BEAMS; GERMANIUM 76 BEAMS; HELIUM 3 BEAMS; HYDROGEN 1 MINUS BEAMS; LEAD 208 BEAMS; LITHIUM 6 BEAMS; LITHIUM 7 BEAMS; NEON 20 BEAMS; NICKEL 60 BEAMS; NITROGEN 14 BEAMS; OXYGEN 16 BEAMS
- acceleration**
- Study of collective ion acceleration in vacuum. (A12). 485430
- backscattering**
- The effects of correlated lattice vibrations on surface backscattering yields. (A13). 489001
- beam bunching**
- Longitudinal motion in high current ion beams: a self-consistent phase space distribution with an envelope equation. (E16). 487923
- beam neutralization**
- Apparatus for neutralization of accelerated ions. (A14, A12; Patent). 489159
- Decompensation effect of a negative-ion dense beam. (A14). 489163
- Space charge neutralization of high brightness ion beams. (A14, A12). 475093
- Theoretical and experimental study of space charge in intense ion beams. (A14, A12). 467562
- Transport experiments with neutralized and space charge dominated denaturalized 2 mA 80 keV Xe^{+1} beams. (E16). 487920
- beam optics**
- Effects of the Coulomb explosion on the transmission of molecular ions through a tandem. (A12, E16). 474625
- beam production**
- The focusing of an ion beam from a quadrupole mass filter using an electrostatic octopole lens. (A12). 462100
- beam profiles**
- Beam-scanning system for determination of beam profiles and form factors in merged-beam experiments. (A12). 481033
- Ion beam expansion due to ion cyclotron wave interactions. (A14). [Data] 478063
- beam transport**
- Electron and ion beam transport to fusion targets. (A14). 492754
- Intense ion beam acceleration and transport. (A14, E16). 475046
- Means for counteracting charged particle beam divergence. (A14; Patent). 467564
- Transport and focussing on intense electron and ion beams using external magnetic fields and plasma channels. (A14). 475027
- Transport experiments with neutralized and space charge dominated denaturalized 2 mA 80 keV Xe^{+1} beams. (E16). 487920
- Transport of intense particle beams with application to heavy ion fusion. (A14). 492738
- calibration**
- Energy determination of heavy-ion beams. (E16). 484876
- control equipment**
- Microcomputer-based multiplexer for performing depth profiling with an Auger electron spectrometer. (A12). 474641
- crystal defects**
- Phase-memory effect associated with lattice defects introduced by ion irradiation and a new-proposed nonvolatile digital memory device. (A13). 471593
- crystal doping**
- Ion beams for films: sputtering, plating and doping with ions. (A13). 459790
- data acquisition systems**
- Interactive NOS group area for specialized electron beam accelerator diagnostics. (E16). 477010
- deposition**
- Preliminary study of ion beam deposition using an isotope separator. (A13). 489060
- dirac equation**
- Quantum defects for highly stripped ions. (A12). 462127
- electron emission**
- Rotational symmetric ion-electron converter. (E41). 485080
- energy losses**
- The energy-angle distribution of heavy particles penetrating solids experimental test of the Meyer-Klein-Wedell theory for Ne and Ar ions in carbon below 250 keV. (A13). 474708
- energy transfer**
- Processes leading to enhanced energy deposition by particle beams. (A14). 475018
- fine structure**
- Quantum defects for highly stripped ions. (A12). 462127

- focusing**
 Conditions of charged particle focusing by axial-symmetrical magnetic fields while bringing out focuses beyond the field boundary (plane case). (E16, E41). 491574
 Developments in Sandia Laboratories particle beam fusion programme. (A14). 483416
 The focusing of an ion beam from a quadrupole mass filter using an electrostatic octopole lens. (A12). 462100
 Gabor lens theory. (A14; Focusing by space charge of electron cloud). 467574
 High-current ion beam from a moving plasma. (A12). 474573
 Transport and focussing on intense electron and ion beams using external magnetic fields and plasma channels. (A14). 475027
- form factors**
 Beam-scanning system for determination of beam profiles and form factors in merged-beam experiments. (A12). 481033
- heavy ions**
 Principles of pulsing for tandem accelerators. (E16). 477018
- helmholtz instability**
 Anomalous ion beam scattering by shear Kelvin-Helmholtz wave interactions. (A14). 489183
- implosions**
 Charged particle fusion targets. (A14). 474942
- impurities**
 Deuterium-ion-beam impurities produced by a gas-discharge ion source (duopigatron). (A12). 485407
- interactions**
 Ion beam expansion due to ion cyclotron wave interactions. (A14). [Data] 478063
- langmuir probe**
 Ion-beam diagnostics by means of an electron-saturated plane Langmuir probe. (A12). 488924
- laser radiation**
 Target designs for energetic ions. (A14). 459926
- lenses**
 On the diagnostic of the beam line in A 150 KeV ion accelerator. (E16). 491554
- let**
 Impaired repair capacity of DNA breaks induced in mammalian cellular DNA by accelerated heavy ions. (C11; Argon-, carbon-, and neon-ion beams; cultured human kidney T-1 cells). 476520
- magnetic fields**
 Propagation of a wide ion beam into a magnetic barrier. (A14). 489302
- mass spectroscopy**
 Deuterium-ion-beam impurities produced by a gas-discharge ion source (duopigatron). (A12). 485407
- physical radiation effects**
 Ion-beam-induced migration and its effect on concentration profiles. (A32, A13). 493140
- pulse converters**
 Rotational symmetric ion-electron converter. (E41). 485080
- pulse techniques**
 Principles of pulsing for tandem accelerators. (E16). 477018
- relaxation losses**
 Energy relaxation of an ion beam in a turbulent plasma. (A14). 471746
- saturation**
 Ion-beam diagnostics by means of an electron-saturated plane Langmuir probe. (A12). 488924
- scattering**
 Scattering of MeV heavy charged particles at crystalline surface. (A13). 489033
- simulation**
 Steady-state transport of high-current beams in a focused channel. (A12). 488818
- space charge**
 Theoretical and experimental study of space charge in intense ion beams. (A14, A12). 467562
- sputtering**
 Analysis of mass and energy of ions in a high rate, coaxial magnetron sputtering. (2). (A13). [Data] 489066
 The development of surface topography during depth profiling in Auger electron spectroscopy. (A13). 467465
 Sputter etching of polymer fibres. (B25). 490717
- stochastic processes**
 Stochastic cooling theory and devices. (E16). 480520
- targets**
 Beam-target interaction in heavy ion fusion. (A14). 474943
 Charged particle fusion targets. (A14). 474942
 Developments in Sandia Laboratories particle beam fusion programme. (A14). 483416
 Intense focussed ion beams and their interaction with matter. (A14). 475101
 Ion beam implosions using layered pellets of advanced fuels. (A14). 475089
- thermonuclear reactions**
 Power plant production of inertial confinement fusion targets. (B12). 475961
 Processes leading to enhanced energy deposition by particle beams. (A14). 475018
- uses**
 Cornell intense ion beam program. (E16, A14). 484862
- heavy ions**
 Mathematical model of axial channeling of heavy ions. (A13). 489021
- interstitials**
 Lattice location of interstitial foreign atoms by ion channeling employing nuclear reaction. (A13). 481171
- mathematical models**
 A simple model for planar dechanneling calculations. (A13). 481135
 The theory of channelling at small depths. (A13). 467419
- mev range 01-10**
 Channeling studies of epitaxially grown gallium nitride crystals. (A13). 477908
- polarization**
 Effect of polarization of lead titanate on helium ion channeling. (A13). 485643
- titanates**
 Effect of polarization of lead titanate on helium ion channeling. (A13). 485643
- uses**
 Ion channeling studies of hydrogen lattice location. (A32). 475698
- ION CLUSTERS:**
 See ION PAIRS
- ION COLLISIONS:**
 See also ELECTRON-ION COLLISIONS; ION-ATOM COLLISIONS; ION-ION COLLISIONS; ION-MOLECULE COLLISIONS; POSITRON-ION COLLISIONS
- copper base alloys**
 Transmission-electron-microscopy studies of displacement cascades in Cu₃Au. (B25). 494130
- discrete ordinate method**
 Sputtering calculations with the discrete-ordinates method. (A12, A14). 477759
- elastic scattering**
 Topics in bound-state dynamical processes: semiclassical eigenvalues, reactive scattering kernels and gas-surface scattering models. (A12). 488744
- electron capture**
 Electron "cusp" spectroscopy of the forward peak in continuum electron capture and loss in gases and solids. (A12). 467305
- electron loss**
 Electron "cusp" spectroscopy of the forward peak in continuum electron capture and loss in gases and solids. (A12). 467305
- inelastic scattering**
 Topics in bound-state dynamical processes: semiclassical eigenvalues, reactive scattering kernels and gas-surface scattering models. (A12). 488744
- molecular models**
 Molecular model of the K-shell vacancy sharing process in heavy ion collisions. (A12). 481040
- multiple scattering**
 Small-angle multiple scattering of low-energy ions. (A32). 468252
- research programs**
 High energy atomic physics program at Brookhaven National Laboratory. (A10). 485265
- sputtering**
 Sputtering calculations with the discrete-ordinates method. (A12, A14). 477759
- transition radiation**
 Prediction of the azimuth angle dependence of the quasimolecular anisotropy in heavy ion collisions. (A12). 488823
- x radiation**
 Ion-induced continuum x-ray emission. (A12). 477816
- ION CYCLOTRON-RESONANCE HEATING:**
 See ICR HEATING
- ION DENSITY:**
ion-atom collisions
 Measurement of ion local parameters in the Tokamak-4 plasma. (A14). 464237
- ION DETECTION:**
dielectric track detectors
 Use of the cellulose nitrate for detection of energetic multicharged ions. (E41). 492126
- heavy ions**
 Hybrid focal plane detectors for heavy ions. (E41). 485067
- ION DOSIMETRY:**
depth dose distributions
 Biophysical aspects of the Space Radiation Effects Laboratory (SREL) 710-MeV helium ion beam: physical measurements and dosimetry. (D15, E16). [Data] 473572
- ION EMISSION:**
energy spectra
 Study on energy distribution of thermal ion by a retarding field modulation method. (E42). [Data] 492191
- field emission**
 Optional positioning of field emitters for ion injection in liquid helium. (E21, A13). 491705
- mass spectrometers**
 Prefilter-ionizer apparatus for use with secondary ion mass spectrometers. (E42). 474157
- mass spectroscopy**
 Ion optic device for sample surface investigation and analysis of the ions leaving the shot surface region. (E42). 482878
- secondary emission**
 Some correlational regularities in secondary processes at the interaction of intermediate energy ions with monocrystalline surface. (A13). 474823
- ION EXCHANGE:**
 Separation of metal ions by anion exchange in mixtures of hydrochloric acid and hydrofluoric acid. (B11). 475873
- electron loss**
 Electron losses by a multicharged ion in channeling. (A13). 485574

- adsorption**
Adsorption on mixtures of ion exchangers. (B11). 472393
- cartilage**
Exchange kinetics of ^{22}Na in articular cartilages. (C21). 482092
- decontamination**
Methods for decontamination of radioactive wastes. (C52). 494432
- europium compounds**
Cation exchange behaviour of europium and thulium from certain diamine solutions. (B12). [Data] 465279
- organic solvents**
Ion exchange in organic solvents Pt. 3. (B12, B16). 465354
- purex process**
Ion exchange in organic solvents Pt. 3. (B12, B16). 465354
- radioisotopes**
Sorption and separation of radionuclides from aqueous solutions on hydrated oxides and some in soluble salts. (B13). 481705
- roots**
Effects of gamma radiation on regulatory processes in plant cells. (C13). 465960
- thulium compounds**
Cation exchange behaviour of europium and thulium from certain diamine solutions. (B12). [Data] 465279
- ION EXCHANGE CHROMATOGRAPHY:**
uses
Use of ion chromatography for trace analysis of MAP3S precipitation samples. (C52). 480135
- ION EXCHANGE MATERIALS:**
See also BENTONITE; CLINOPTILOLITE; INORGANIC ION EXCHANGERS; MONTMORILLONITE; ORGANIC ION EXCHANGERS; POLYSTYRENE-DVB; ZEOLITES
chemical preparation
Radiation process for the production of graft copolymer to be used for ion-exchange membrane. (B14, B11; Patent). 486749
Synthesis and investigation of carboxylic cationites from oil asphaltites. (B14). 468969
- chemical properties**
Chemistry of primary cooling water system of CIRUS reactor operating experiences. (E36). 470798
- chemical radiation effects**
Effect of gamma radiation on ion exchange properties of some ion exchangers. (B14). 479265
Radiation stability of sulfocationites from oil asphaltites. (B14). 468968
- Synthesis and investigation of carboxylic cationites from oil asphaltites. (B14). 468969
- radioactive waste disposal**
Estimation of the radiation effect of medium-active ion-exchange resins with final storage as radioactive wastes. (E52). 463781
- resins**
Chemistry of primary cooling water system of CIRUS reactor operating experiences. (E36). 470798
- ION IMPLANTATION:**
Ion implantation (a bibliography with abstracts). Report for 1964 - August 1978. (B25). 472774
Ion implantation. (A13). 481153
Precipitation processes in implanted materials. (B22, B24). 465577
- alloys**
Production of amorphous alloys by ion implantation. (A13). 477883
- amorphous state**
TEM study of amorphous alloys produced by ion implantation. (B25, A13). 481894
- annealing**
Characterisation of ion-implanted silicon annealed by laser irradiation. (A13). 492594
Effect of ionisation on defect annealing in phosphorus-implanted silicon. (A13). 492653
Effects of laser pulses on virgin and heavily damaged silicon. (B25, A13). 494153
Pulse annealing of ion-implanted GaAs. (A13). 492691
Regrowth of Si and Ge under laser irradiation. (A13). 492582
- chemical radiation effects**
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
- configuration**
Location of self-interstitial atoms in boron-implanted silicon by means of Rutherford backscattering of channelled ions. (A13). 492621
- corrosion resistance**
Ion implantation of engineering components. (A13). 462179
- crystal defects**
Study of defects in antimony implanted diamond. (B25, A13). 494170
- depth**
Measurement of range distributions of zinc and nitrogen ions in multiple-layer substrates with the secondary ion microprobe. (A13). [Data] 464201
A theoretical treatment of cascade mixing in depth profiling by sputtering. (A13). 488992
- diffusion**
Radiation enhanced outdiffusion during ion implantation. (A13). 485569
- diffusion length**
Diffusion length evaluation of boron-implanted silicon using the SEM-EBIC/Schottky diode technique. (A13). 488997
- electric conductivity**
Theoretical estimates of the sheet resistance of Gaussian n-type ion implanted layers in semiconductors: phosphorus in silicon. (B25). 490745
- integrated circuits**
Formation of extremely narrow metallic lines. (A13). 488988
- irradiation devices**
Radioactive ion implantation system. (A13). 489080
- medium temperature**
A process for doping an amorphous semiconductor material by ion implantation. (A13). 492643
- n-type conductors**
Deep levels in Be-implanted GaAs. (A13). 492714
- niobates**
Acoustic model for ion-implanted lithium surfaces used to propagate elastic waves. (A13). 471442
- p-type conductors**
Long-range enhancement of boron diffusivity induced by diffusion of a high surface concentration of phosphorus. (A13). 492662
- physical radiation effects**
Backscattering measurements of postimplantation damage profiles in silicon single crystals. (A13). [Data] 471483
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
Investigation of radiation damage in ion implanted silicon crystals by pendelloesung topography. (A13). 474687
Radiation defect formation at ion implantation of semiconductors in the presence of force fields. (A13). [Data] 474844
Temperature and dose dependence of defect profiles in amorphous and crystalline silicon after 2 MeV Si^+ irradiation. (B25). 494123
- quantitative chemical analysis**
Quantitative ion implantation: the practice. (B11). 483970
Quantitative ion implantation: theoretical aspects. (B11). 483969
- radioactive waste storage**
Ion-implantation and storage of radioactive waste in metal matrix. (E51). 492244
- radioisotopes**
Radioactive ion implantation system. (A13). 489080
- range**
Analytical calculations of some ion-implantation depth distributions. (A13). [Data] 471590
Ion-implantation distributions in non-uniform targets: projected range. (A13). [Data] 471589
- reviews**
Physical properties of ion-implanted semiconductor layers. (A13). 485594
- semiconductor resistors**
Model of 1/f noise in ion implanted resistors as a function of the resistance, determined by a reverse bias voltage. (A13, B25). 481070
- shields**
Properties of Se-Ge inorganic photoresist as an ion-implantation mask. (A13). 492716
- silicon**
Doping of amorphous silicon by alkali-ion implantations. (A13). 471564
- spatial distribution**
Measurement of range distributions of zinc and nitrogen ions in multiple-layer substrates with the secondary ion microprobe. (A13). [Data] 464201
Model for the site populations of heavy ions implanted in metals in the case where all defects are immobile. (A13). 471511
- sputtering**
Ion beam sputter implantation method. (A13). 481116
- temperature measurement**
Implantation temperature measurement using impurity luminescence. (A13). 467381
- tin 119**
Moessbauer spectroscopy of ion-implanted ^{119}Sn in GaAs. (A13). 492635
- wear resistance**
Ion implantation of engineering components. (A13). 462179
- ION MICROPROBE ANALYSIS:**
boundary layers
Application of surface analytical techniques on thin film research. (B12, E32, B15). 465379
- helium 4 beams**
The Tandatron analysis system. (E16). 482627
- ion sources**
Construction of sputter ion source and application to IMA analysis. (D14). 482512
- mass resolution**
Depth profiling by ion microprobe with high mass resolution. (B11). 478803
- oxygen 16 beams**
Ion microprobe analysis of olivine in pallasite meteorites for nickel. (B11). 483999
- quantitative chemical analysis**
Ion microprobe analysis of olivine in pallasite meteorites for nickel. (B11). 483999
- sensitivity**
Secondary ion mass spectrometry at close to single-atom concentration using DC accelerators. (B11). 478857
- spatial distribution**
Depth profiling by ion microprobe with high mass resolution. (B11). 478803
- ION MICROSCOPES:**
ion sources
Differentially-pumped low-energy ion-beam system for an ultra-high vacuum (uhv) atom-probe field-ion microscope. Report No. 4017. (E42). 488283
- laboratory equipment**
Specimen-exchange device for an ultra-high vacuum atom-probe field-ion microscope. (D22). 487806

ION MOBILITY:

- gases
Mobilities of various ions in non-parent gases. (A12). 474605
- helium
Low-temperature mobility of positive ions in helium vapour. (A13). 481158
- measuring methods
Apparent ionic charge and conditional complexation constant determination by a transport method using radiotracer. (B12). 493647
- perturbation theory
Perturbation treatment of thermal motions in gaseous ion-transport theory. (A12). 477821

ION PAIRS:

- electron spin resonance
EPR spectrum of copper ion pairs in CaO. (A13). 464124
- kinetic energy
Experimental results on W-values and transmission of low energy electrons in gases. (C11, C55). [Data] 461002
- reaction kinetics
Solution of the Debye-Smoluchowski equation for the rate of reaction of ions in dilute solution. (B12; Debye-Smoluchowski equation dilute solution). 479028
- recombination
Effect of an external electric field on the scavenging of geminate ions. (B14). 468979
- spatial distribution
Biophysical studies with spatially correlated ions. 3. Cell survival studies using diatomic deuterium. (C11; Exposure of cultured V79 hamster cells to D₂ molecular ions). [Data] 490906
- Biophysical studies with spatially correlated ions. 1. Background and theoretical considerations. (C11; Exposure of cultured V79 hamster cells to D₂ molecular ions). [Data] 490931
- Biophysical studies with spatially correlated ions. 2. Multiple scattering, experimental facility, and dosimetry. (C11; D₂ molecular ions). 490910

ION PLASMA WAVES:

- (Dispersive ion waves)
- decay
Parametric excitation of backward ion cyclotron wave with a pump in the lower hybrid range. (A14). [Data] 474931
- electromagnetic radiation
Radiation phenomena of plasma waves. 2. (A14). 467647
- parametric instabilities
Collapse of very large amplitude ion waves. (A14). 467546
- Parametric excitation of backward ion cyclotron wave with a pump in the lower hybrid range. (A14). [Data] 474931
- radiation sources
Radiation phenomena of plasma waves. 3. (A14). 467649
- Schrodinger equation
Coupled nonlinear Schrodinger equation for Langmuir and dispersive ion acoustic waves. (A14). 489345
- solitons
Coupled nonlinear Schrodinger equation for Langmuir and dispersive ion acoustic waves. (A14). 489345
- turbulence
Acoustic turbulence trapped in the modulated Langmuir wave and its effect on the collapse. (A14). 489228
- wave propagation
Radiation phenomena of plasma waves. 1. (A14). 467648

ION PROBES:

- beam optics
Micro beam probe for seizing of charged secondary particles. (E42). 482885
- data acquisition systems
Data acquisition and analysis system for the ion microprobe mass analyzer. (E41). 487553
- electrostatic lenses
An electrostatic coaxial probe forming lens suitable for high-energy ion beams. (A12). 467241
- gases
The gas ion probe: a novel instrument for analyzing concentration profiles of gases in solids. (B11). 460407
- microanalysis
Microanalysis with electron and ion probes. (B11). 468600
- surface properties
Physical methods of surface studies: ion beam analysis of surfaces. (A13). 485600

ION RINGS:

- kink instability
Simulation of the electron-ion ring kink instability. (E16). 494829
- magnetic compression
Kinetic theory of ion ring compression. (A14). 467610
- negative mass instability
Stability properties of a cylindrical rotating P-layer immersed in a uniform background plasma. (A14). 467707
- reverse-field pinch
Recent results and work on field-reversing E- and P-layers. (A14). 464502
- [Data]
- stability
Ion ring dynamics and angular momentum conservation. (A14). 467612

ION SCATTERING ANALYSIS:

- crystals
The structural and compositional analysis of single crystal surfaces using low energy ion scattering. (B11). 472318
- elastic scattering
Hydrogen depth profiling using elastic recoil detection. (B11). 460387

impurities

- Some specific features of optimal condition choice for analysis of lithium, boron and beryllium content in surface layers of materials. (D22). 494674

monocrystals

- Apparatus for study on monocrystals in a cyclotron. (E42). 495164

physical radiation effects

- Radiation-induced damages in the process of nuclear analysis of materials. (B25, A13). 494136

rutherford scattering

- How accurate are absolute Rutherford backscattering yields. (B11). 472365

sample preparation

- Surface roughness effects on the energy dispersion of backscattered protons. (A13). [Data] 467363

ION SOURCES:

- See also ALPHA SOURCES; DUOPLASMATRONS; ELECTRON BEAM ION SOURCES; PENNING ION SOURCES; TRIPLASMATRONS
- Plasma generating device with hairpin-shaped cathode filaments. (A14; Patent). 489148
- Single-plate stand-alone CAMAC control system for a negative ion source test facility. (E16). 480468
- Study of the acceleration, focussing and bunching of ions by electronic space charge for pellet fusion. Progress report, 1 August 1978-31 January 1979. (A14; Acceleration, focusing, and bunching of ions for pellet fusion). 475052

anions

- Negative ion based neutral beams for plasma heating. (A14). 459972

beam currents

- Fundamental investigation for high intensity ion sources. (A12). 488914
- Test of usable sputter target size in the Florida-State-University-type inverted sputter ion source. (A12). 474560

beam extraction

- Construction of a simple low-energy high-intensity gas ion source with a multi-aperture extractor system. (A13). 471457
- Extraction of an intense neutralized ion beam from a plasma. (A14). 475146
- Ion withdrawal studies of the quadrupole ion storage trap. II. (D14). 491400
- Ion withdrawal studies of the quadrupole ion storage trap (QUISTOR). I. (D14). 484782

beam injection heating

- IBM-5 ion source without an external magnetic field. (A14). 492787

beam neutralization

- Negative ion based neutral beams for plasma heating. (A14). 459972

beam-plasma systems

- Plasma properties of a modified beam-plasma type ion source. (A14). [Data] 489204

cathode sputtering

- Multiply-charged metal ion source. (E16). 477067
- A simple dual function source for heavy ions. (A12). 488921

cold cathode tubes

- Comparison of the McClure and McIlraith type ion sources. (A12). 462112

configuration

- An ion source. (D14, B21). 482514
- Ion sources. (A12). 462154

cooling

- Preliminary experiments of cooled extraction grids in ion sources for neutral beam injector. (A14). 467593

cost

- Manufacturing cost study on the ion sources for the Mirror Fusion Test Facility. (A14). 492840

crossed fields

- Self-crossed field ion source. (D14). 476838

current density

- Microsecond operation of a general purpose pulsed proton gun. (A12). 485461

efficiency

- Increase of plasma ion source efficiency utilizing collisions of the second kind. (A12). 467343

electric currents

- Dual-current-feed magnetically insulated light-ion diode. (A14). 489209

electric discharges

- Production of high current particle beams by low pressure spark discharges. (A12). 467181

electric furnaces

- Multiply-charged metal ion source. (E16). 477067

electrical insulators

- Evaluation of TFTR neutral beam injector insulator problems. (B23, A14). 486950

electron beams

- Some improvements and application of electron beam bombardment vaporization ion source with hollow cathode having ion extraction function. (A13). [Data] 489005

energy resolution

- Changes in the energy analyzing system. (E16). 491594

energy spectra

- The energy spread of metal ions drawn from their liquid. (A12, D14). 477729

feasibility studies

- MS-Xa calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886

field emission

- Field-ionization point ion source. (D14). 476841

- functional models**
- Injector test stand ITS-2 for two-stage ion sources development. (A14). 467646
- gases**
- Construction of a simple low-energy high-intensity gas ion source with a multi-aperture extractor system. (A13). 471457
- heating**
- Grids heat loading of an ion source in two-stage acceleration system. (A14). 467651
- heavy ions**
- Characteristics of an end-extraction pig heavy ion source with cold cathode. (D14). 476845
- hollow cathodes**
- Characteristics of EOS with hollow cathode. (D14). 476834
- Some improvements and application of electron beam bombardment vaporization ion source with hollow cathode having ion extraction function. (A13). [Data] 489005
- hydrogen ions 1 minus**
- Experimental study on a negative ion source for hollow beam production. (A14). 492785
- Intense stationary H⁻ ion source with a hollow cathode. (E16). 487899
- ion microprobe analysis**
- Construction of sputter ion source and application to IMA analysis. (D14). 482512
- lamb shift**
- A 700 keV tandem accelerator. (E16). 484865
- laser-produced plasma**
- Laser ion sources. (E16, A14). 480435
- liquid metals**
- The energy spread of metal ions drawn from their liquid. (A12, D14). 477729
- logic circuits**
- Logic control- and interlock-system. (E42). 492206
- magnetrons**
- A modified magnetron-type ion source with field-compensated filament. (D14). 476840
- mass spectrometers**
- The quadrupole ion store (QUISTOR). IV. (E42). 480817
- The quadrupole ion store (QUISTOR). III. (E42). 480816
- The quadrupole ion store (QUISTOR). II. (E42). 480815
- multicharged ions**
- Electron cyclotron resonance (E.C.R.) multiply charged ion sources. (E16, A14). 494777
- on-line control systems**
- Improved control links between the polarized ion source and the computer. (E16). 480440
- operation**
- Operation of a high-current xenon source. (E16). 487892
- optimization**
- Some developments in polarized ion sources. (A12). 474682
- oscillations**
- Electrical oscillations in a Freeman ion source. (D14). 476836
- penning effect**
- Increase of plasma ion source efficiency utilizing collisions of the second kind. (A12). 467343
- performance**
- Characteristics of a high current unidirectional ion beam generator (CMG-REBO). (A14). 475114
- Development and testing of a three-stage double tandem accelerator-decelerator system for low energy, highly stripped ions. Progress report, March 1, 1978 - February 28, 1979. (A14). 474951
- Development of high current low energy H⁺ ion source. (A12). 477739
- General plasma characteristics of a Berkeley multifilament ion source. (A12, A14). 488898
- Intense Pulsed Ion Neutral Source (IPINS). (A14). 475117
- Observation of the infrared spectrum of the hydrogen molecular ion. (A12). 459768
- Operating experience with an 834 Hiconex sputter ion source. (E16). 477021
- Recent developments in high charge state heavy ion beams at the LBL 88-inch Cyclotron. (E16). 466535
- Recent negative ion source developments at ORNL. (E16). 494725
- Recent negative ion source developments. (A10). 463866
- SNICS: a Source of Negative Ions by Cesium Sputtering. (E16). 494740
- Test of usable sputter target size in the Florida State University type inverted sputter ion source. (E16). 494741
- Wideroe-based heavy ion preaccelerator for the SuperHILAC. (E16). 487932
- performance testing**
- High power magnetically insulated radial diode. (A14). 475073
- plasma**
- On the theory of magnetoelectrostatic principle for plasma confinement in ion sources. (A14). 483324
- A simple dual function source for heavy ions. (A12). 488921
- polarized beams**
- High energy polarized deuterons at the Argonne National Laboratory zero gradient synchrotron. (E16). 480490
- power supplies**
- Heavy-ion source power supply. General description. (E16). 491592
- quadrupolar configurations**
- Calculation of the phase-space parameters for the study of quadrupole devices. (D14). 491399
- Ion withdrawal studies of the quadrupole ion storage trap. II. (D14). 491400
- Ion withdrawal studies of the quadrupole ion storage trap (QUISTOR). I. (D14). 484782
- The quadrupole ion store (QUISTOR). II. (E42). 480815
- The quadrupole ion store (QUISTOR). IV. (E42). 480817
- The quadrupole ion store (QUISTOR). III. (E42). 480816
- research programs**
- Cornell intense ion beam program. (A14). 474996
- Theoretical research. (A14). 477981
- reviews**
- Atom and ion sources. (A12, E16; Book). 485544
- Negative ion production for neutral beam systems. (A14). 464352
- Production of negative heavy ion beams through charge exchange processes. (E16). 494869
- sodium ions**
- A polarized alkali ion source. (A12). 485409
- specifications**
- Differentially-pumped low-energy ion-beam system for an ultra-high vacuum (uhv) atom-probe field-ion microscope. Report No. 4017. (E42). 488283
- Method and apparatus for rejuvenating ion sources. (E16; Patent). 470387
- Source of ions of high mass, especially ions of uranium oxide UO₂. (B13, E16; Patent). 479089
- sputtering**
- Recent ion source development at the University of Pennsylvania. (E16). 494815
- Recent negative ion source developments at ORNL. (E16). 494725
- SNICS: a Source of Negative Ions by Cesium Sputtering. (E16). 494740
- Test of usable sputter target size in the Florida State University type inverted sputter ion source. (E16). 494741
- targets**
- Test of usable sputter target size in the Florida-State-University-type inverted sputter ion source. (A12). 474560
- thermionic emission**
- High-relative aperture ion source of surface ionization. (D14, E42). 476835
- ION SPECTROSCOPY:**
- auger effect**
- Ionic Auger spectroscopy and chemical bond of atoms in a compound. (A13). 492607
- backscattering**
- Electron and ion currents relevant to accurate current integration in MeV ion backscattering spectrometry. (E41). 474100
- charge exchange**
- The influence of experimental resolution and background upon ion-induced vsub(e) approximately equal to vsub(i) electron distributions measured behind solid foils; and reply. (A12). [Data] 462106
- chemical bonds**
- Ionic Auger spectroscopy and chemical bond of atoms in a compound. (A13). 492607
- electric charges**
- Semi-empirical determination of the charge states of a fast ion beam (Z <= 18). (A12). 474664
- electron loss**
- The signal-to-damage ratio for microscopy based on electron loss by high-energy ions. (A13). 474834
- hydrogen ions 3 plus**
- Proposal of new beam spectroscopic technique. (A12). 474550
- lasers**
- Laser spectroscopy of ion beams. Isotope shifts. (A12). 477696
- mass spectroscopy**
- A new fast-scanning method for MIKE spectra. (E42). 461871
- molecular ions**
- A study of molecular effects in beam-foil spectroscopy. (A12). 477699
- nuclear screening**
- A study of molecular effects in beam-foil spectroscopy. (A12). 477699
- ION TEMPERATURE:**
- ion-atom collisions**
- Measurement of ion local parameters in the Tokamak-4 plasma. (A14). 464237
- jft-2a tokamak**
- Ion temperature characteristics of upgraded DIVA. (A14). 467692
- temperature measurement**
- Measurement of ion temperature in scrape-off layer with Katsumata probe. (A14). 475110
- time dependence**
- Dynamics of tokamak discharges dominated by the trapped-electron instability. (A14). 485757
- ION WAVE INSTABILITY:**
- On the modulational instability of electrostatic ion cyclotron waves. (B33). 479689
- beam-plasma systems**
- Beam-driven instabilities in a field-reversed ion layer. (A14). 464324
- ion temperature**
- Effect of ionic temperature on the modulational instability of ion acoustic waves in a collisionless plasma. (A14). 464303
- magnetoacoustic waves**
- Beam-driven instabilities in a field-reversed ion layer. (A14). 464324
- nonlinear problems**
- Nonlinear aspects of the electromagnetic ion-cyclotron instability. (A14). 460004
- ION WAVES:**
- See also ION ACOUSTIC WAVES: ION PLASMA WAVES
- wave propagation**
- Circularly polarized ion cyclotron waves; propagation and heating in a linear and a toroidal plasma. (A14). 460018
- On the propagation of magneto-ionic rays in a shearing plasma. (A14, B33, A15). 489247

ION-ATOM COLLISIONS:

- Bibliography of electron transfer in heavy particle collisions, 1950 - 1975. (A14, A12). 464344
- Bibliography of ionization and stripping in heavy particle collisions, 1950 - 1975. (A14, A12). 464345
- Theoretical studies on various processes of heavy particle collisions. (A12). 467338
- argon**
- Ksub(α)sup(h)/Ksub($\alpha\alpha$) branching ratios of S and Ar in dependence on S projectile-charge state. (A12). 477836
- Proton impact argon inner-shell charge transfer and ionisation: importance of couplings to target-centred d states. (A12). 488803
- Subshell electron capture cross sections of argon atoms by protons. (A12). 488861
- auger electron spectroscopy**
- Auger electron emission due to incident particle in Ar⁺, Ne⁺ and Na⁺ collisions with different solid targets. (A13). 488951
- autoionization**
- Observation of intense low energy autoionization lines in the wings of the forward peak from fast ion-atom collisions. (A12). [Data] 467317
- born approximation**
- The calculation of certain second Born integrals. (A12). 483177
- charge exchange**
- Charge changing collisions of atom beams in alkali metal vapor. (A12). 467268
- Charge exchange between H(2s) and energetic projectiles. (A12). 474567
- Charge transfer in atomic systems. (A12). [Data] 477762
- Dependence of the charge transfer between atoms and highly charged ions on the ionization potential of the atoms. (A12). 474633
- Differential cross sections for charge transfer and excitation in low-energy Be⁺-He, Ne collisions. (A12). [Data] 462140
- Observation of mixed-parity electric-dipole oscillations in charge transfer to the n = 2 hydrogen levels by fast protons in gases. (A12). 474654
- Surface-hopping trajectory calculations of collision-induced dissociation processes with and without charge transfer. (A12). 483188
- Time independent quantum theory of electron transfer collisions using a nonorthogonal basis and R-matrix propagation. (A12). 485519
- charge-exchange reactions**
- Charge-exchange reactions in collisions of Li⁺-Li. (A12). 488846
- chemical reaction kinetics**
- Dynamics of the reaction H₂*(He,H)HeH⁺. Influence of various forms of reactant energy on the total and differential cross section. (A12). 483238
- Some reactions of Ar²⁺ with atoms and molecules at 300 K. (A12). 488907
- configuration interaction**
- Excitation processes in heavy-particle collisions at low-keV energies. (A12). 474553
- coupled channel theory**
- A new coupled-state equation for ion-atom collisions. (A12). 471383
- cross sections**
- Improved measurements of cross sections for H(2s) formation in electron capture by 1.5-25 keV protons in H and H₂. (A12). [Data] 488827
- Technical progress report, October 1, 1977 - September 30, 1978. (A12). 474681
- crystals**
- The effects of correlated lattice vibrations on surface backscattering yields. (A13). 489001
- differential cross sections**
- Differential elastic cross-section calculation of H⁺ ion on Cs target using uniform and transitional approximations. (A12). 483162
- Double differential cross sections for charge exchange processes. (A12). 467276
- Electron-detachment in differential I⁺+Ne cross section measurements. (A12). 488923
- diffraction**
- Rainbows, interference, and diffraction in collisions between ions and atoms. (A12). 471385
- dissociation**
- Surface-hopping trajectory calculations of collision-induced dissociation processes with and without charge transfer. (A12). 483188
- elastic scattering**
- Charge transfer in atomic systems. (A12). [Data] 477762
- Differential elastic cross-section calculation of H⁺ ion on Cs target using uniform and transitional approximations. (A12). 483162
- Elastic and inelastic scattering of He⁺ by He in the energetic and angular ranges 5 to 50 keV and 0.5 to 3 degrees. (A12). [Data] 471318
- electric charges**
- Charge condition of the projectile as a parameter in ion-atom collisions. (A12). 471346
- electron attachment**
- Charge transfer by a double-scattering mechanism involving target electrons. (A12). 492518
- electron capture**
- Atomic expansion method for electron capture in ion-atom collisions. (A12; Cross sections, charge exchange, atomic expansion method, quasi-molecular binding correction). [Data] 485485
- Classical cross section for charge transfer via "knock-on" capture from high-Rydberg states at asymptotically high impact velocities. (A12). 474659
- The distribution of excitation resulting from electron capture in stripped-ion-hydrogen-atom collisions. (A12). [Data] 462146
- Electron "cusp" spectroscopy of the forward peak in continuum electron capture and loss in gases and solids. (A12). 467305
- Electron capture by 0.1-13 keV C⁺, N⁺ and O⁺ ions in H and H₂. (A12). [Data] 462138
- Energy spectra of electrons produced in collisions of multiply charged neon ions with noble-gas atoms. (A12). [Data] 471414
- Energy-loss spectra of product ions in electron capture. (A12). [Data] 462150
- electron detachment**
- Electron-detachment in differential I⁺+Ne cross section measurements. (A12). 488923
- A simple approximation for low-energy detachment cross sections. (A12). 483167
- electron exchange**
- Effect of symmetry on exchange of one or two electrons in atom collisions. (A12). 474568
- electron loss**
- Electron "cusp" spectroscopy of the forward peak in continuum electron capture and loss in gases and solids. (A12). 467305
- Electron removal from atomic hydrogen by collisions with fully stripped iron ions. (A12). 488894
- electron spectra**
- Ejected-electron spectroscopy of helium and neon by low-energy lithium-ion impact. (A12). 471400
- Energy spectra of electrons produced in collisions of multiply charged neon ions with noble-gas atoms. (A12). [Data] 471414
- The influence of experimental resolution and background upon ion-induced vsub(e) approximately equal to vsub(i) electron distributions measured behind solid foils; and reply. (A12). [Data] 462106
- electron spectroscopy**
- Investigation of the spontaneous ionisation mechanisms in slow collisions of He⁺ with Ca and Ba, and of Ne⁺ with Ba. (A12). 477760
- electron-promotion model**
- Scaling for two-electron excitation in symmetric ion-atom collisions: two-electron systems and two-hole systems. (A12). 488852
- electrons**
- Energy and angular distributions of electrons ejected from atoms and molecules by 0.4- to 3.0-MeV ion impact. (A12). 471377
- emission spectra**
- Energy dependence of excitation in sputtering. (A13). [Data] 471432
- energy-level transitions**
- Dependence of the Ksub(h)sub(α)/Ksub($\alpha\alpha$)-branching ratio on projectile velocity and nuclear charge. (A12). 467304
- excitation**
- Anisotropy and time dependence in atomic collisions. (A12). 477780
- Collisional excitation of simple systems. (A12; keV range, cross sections). [Data] 477806
- Cross sections for K-shell excitation in slow ion-atom collisions. (A12). 467303
- Differential cross sections for excitation of a atomic hydrogen by protons. (A12). 474563
- Differential cross sections for charge transfer and excitation in low-energy Be⁺-He, Ne collisions. (A12). [Data] 462140
- The distribution of excitation resulting from electron capture in stripped-ion-hydrogen-atom collisions. (A12). [Data] 462146
- Excitation processes in heavy-particle collisions at low-keV energies. (A12). 474553
- Observation of luminescent spectra in low energy ion-neutral collisions. Progress report, June 1, 1978 - May 31, 1979. (A12; Summaries of research activities at Univ., Missouri). [Data] 477773
- Probabilities for 2s-2p excitation ion-atom collisions. (A12). 488873
- Scaling for two-electron excitation in symmetric ion-atom collisions: two-electron systems and two-hole systems. (A12). 488852
- excited states**
- Atomic excitations in He⁺ and H⁺ reflection from a metal surface. (A13). 492593
- ground states**
- Interaction potential for the X¹ Σ state of Li⁺ + Ar. (A12). 477802
- helium**
- The mobility of He⁺ ions in He. (A12). [Data] 471395
- helium ions**
- Classical four-body calculations of "He⁺ + H and H + H collisions. (A12). 488762
- The mobility of He⁺ ions in He. (A12). [Data] 471395
- helium 4**
- Classical four-body calculations of "He⁺ + H and H + H collisions. (A12). 488762
- hydrogen**
- Classical four-body calculations of "He⁺ + H and H + H collisions. (A12). 488762
- Electron capture by 0.1-13 keV C⁺, N⁺ and O⁺ ions in H and H₂. (A12). [Data] 462138
- Sudden approximation cross sections for ionisation of H atoms by energetic C⁺ and He²⁺ impact. (A12). 474652
- Unpolarised and spin-change collisions between He⁺ and H at low energies. (A12). 462111
- impact parameter**
- Calibration of the energy transfer for Coulombionization by heavy ions. (A34). 486319
- Impact-parameter dependence of K-shell excitation in slow ion-atom collisions. (A12). 488866
- Impact-parameter dependence of K-vacancy production in Cusup(q+)-Kr collisions. (A12). [Data] 483171

- inelastic scattering**
Application of semiclassical theory of inelastic scattering to $H^+ + Cs \rightarrow H(2s) + Cs^+$. (A12). 483225
Elastic and inelastic scattering of He^+ by He in the energetic and angular ranges 5 to 50 keV and 0.5 to 3 degrees. (A12). [Data] 471318
- inner-shell ionization**
Calculations of atomic inner-shell vacancy yields and their dependence on collision parameters. (A12). 459776
Charge-state distributions and the population of X-ray emitting states. (A12). 481047
Comments on an empirical scaling rule related to X-ray emission from superheavy quasimolecules. (A12). 488755
Inner shell ionizations of light atoms by proton, alpha particle and heavy ion bombardments. (A12). 467218
The inner-shell ionization by proton, helium-3 ion and electron impact. (A12). 467325
Investigation of the dependence of the K-shell ionization on the collision parameter in the Ni+Ni collision at 67 MeV. (A12, A34). 492519
Variational method for inner-shell excitation in heavy-ion collisions. (A12). 467224
- interference**
Quasi-molecular interference effects in ion-atom collisions. (A12). 488767
Rainbows, interference, and diffraction in collisions between ions and atoms. (A12). 471385
- ion mobility**
Studies of ionic mobilities and ion-neutral reactions by means of the injected-ion drift tube technique. (A12). 467228
- ion spectroscopy**
Proposal of new beam spectroscopic technique. (A12). 474550
- ionization**
Calculation of K-vacancy production by relativistic projectiles. (A12). 474548
Investigation of the spontaneous ionisation mechanisms in slow collisions of He^+ with Ca and Ba, and of Ne^+ with Ba. (A12). 477760
Multiple-ionisation cross sections for highly stripped ions colliding with He, Ne and Ar. (A12). 477801
- l-s coupling**
Electron spin couplings in ion-atom collisions. (A12). 462108
- matrix elements**
Evaluation of exchange matrix elements with momentum transfer for ion-atom collisions. (A12). 488893
- molecules**
Formation of quasimolecules in heavy ion collisions. (A12). 485469
- nitrogen ions**
Energy-loss spectra of product ions in electron capture. (A12). [Data] 462150
- photon emission**
Angular distributions of MO x-ray emission. (A12). 471321
- positrons**
Measurement of positron spectra after heavy ion collisions. (A12). 463934
- potential scattering**
Repulsive potentials between closed-shell ions and rare gas atoms derived from beam experiments. (A12). 467221
- protons**
Proton impact argon inner-shell charge transfer and ionisation: importance of couplings to target-centred d states. (A12). 488803
Subshell electron capture cross sections or argon atoms by protons. (A12). 488861
- research programs**
High energy atomic physics program at Brookhaven National Laboratory. (A10). 485265
Thermal-energy scattering of atoms in high Rydberg states. Annual progress report, July 1, 1978 - June 30, 1979. (A12; Summaries of research activities at Oregon State Univ.). 488851
- reviews**
Quasi-molecular model in heavy particle collisions. (A12). 485396
- scaling laws**
A scaling law for molecular orbital X-rays. (A12). [Data] 481007
- scattering**
Orientational effects in charge state of ions scattered by single crystal. (A32). 472128
- scattering amplitudes**
Collisions between atomic systems. (A12). 488804
- semiclassical approximation**
Application of semiclassical theory of inelastic scattering to $H^+ + Cs \rightarrow H(2s) + Cs^+$. (A12). 483225
Probabilities for 2s-2p excitation ion-atom collisions. (A12). 488873
- spin exchange**
Unpolarised and spin-change collisions between He^+ and H at low energies. (A12). 462111
- spin orientation**
Angular variation in the orientation of He atoms and Ar^+ ions produced in a beam-tilted-foil experiment. (A12). 462143
- sputtering**
Energy dependence of excitation in sputtering. (A13). [Data] 471432
- sulfur ions**
 $K_{sub}(\alpha)_{sup}(h)/K_{sub}(\alpha)$ branching ratios of S and Ar in dependence on S projectile-charge state. (A12). 477836
- total cross sections**
Hydrogen atom destruction in collisions with multicharged ions. (A12). 492524
Scattering of electrons and ions on an excited hydrogen atom. (A12). 483137
- vacancies**
Impact-parameter dependence of 1 s sigma vacancy production in 4.6-MeV/a.m.u. Xe+Pb collisions. (A12). 483131
Impact-parameter dependence of K-vacancy production in Cusup(q+)-Kr collisions. (A12). [Data] 483171
- x radiation**
Angular distributions of MO x-ray emission. (A12). 471321
Influence of electron capture on x-ray production in heavy-ion collisions. (A12). 477710
Inner-shell X-ray production in adiabatic iodine- Z_2 collisions with $Z_1 + Z_2 \geq 100$. Pt. 2. (A12). [Data] 467208
On the theory of molecular-orbital x-rays. (A12). 488805
- x-ray spectra**
Impact-parameter dependence of K- and L-X-rays produced in Ar-Al and Ar-Sn collisions. (A12). 488800
Molecular-orbital X-rays from 1 GeV $^{208}Pb + ^{208}Pb$ and $^{209}Bi + ^{209}Bi$ collisions. (A12). 477790
Subshell effect of L x-ray from 3d elements induced by heavy ion bombardment. (A12). 474643
- ION-DRAG ACCELERATORS:**
See ELECTRON-RING ACCELERATORS
- ION-ION COLLISIONS:**
Bibliography of electron transfer in heavy particle collisions, 1950 - 1975. (A14, A12). 464344
Theoretical studies on various processes of heavy particle collisions. (A12). 467338
- absorption**
Penetration probabilities of high energy heavy ion projectiles into a target nucleus. (A33). 475743
- cadmium ions**
Relative yields of ground-state and excited-state ions of Zn, Cd and Hg in thermal-energy charge-transfer reactions of He^+ ions. (A12). [Data] 471359
- charge exchange**
Charge transfer processes of highly stripped ions. (A12). 467296
Double charge transfer in H^+H^- collisions. (A12). [Data] 471322
- cross sections**
Cross sections for alpha particles colliding with oxygen ions: loss of alpha heating in Tokamak plasmas. (A14). 489292
- electron capture**
Charge transfer in proton-positive-ion collisions producing hydrogen atoms in any arbitrary p state. (A12). 483218
Electron capture by protons from some hydrogen-like ions. (A12). [Data] 471371
- excitation**
How good is the adiabatic basis in heavy ion collisions. (A12). 488916
- helium ions**
Relative yields of ground-state and excited-state ions of Zn, Cd and Hg in thermal-energy charge-transfer reactions of He^+ ions. (A12). [Data] 471359
- inner-shell ionization**
How good is the adiabatic basis in heavy ion collisions. (A12). 488916
On the adequacy of first-order perturbation theory for calculations of inner-shell ionisation. (A12). [Data] 464072
- lead**
On the adequacy of first-order perturbation theory for calculations of inner-shell ionisation. (A12). [Data] 464072
- mercury ions**
Relative yields of ground-state and excited-state ions of Zn, Cd and ^{199}Hg in thermal-energy charge-transfer reactions of He^+ ions. (A12). [Data] 471359
- particle production**
Positron production in heavy ion collisions. (A34). 465191
- scattering amplitudes**
Collisions between atomic systems. (A12). 488804
- x-ray spectra**
Interpretation of the anisotropy of M MO radiation in slow I on Au collisions. (A12). 483174
- zinc ions**
Relative yields of ground-state and excited-state ions of Zn, Cd and Hg in thermal-energy charge-transfer reactions of He^+ ions. (A12). [Data] 471359
- ION-MOLECULE COLLISIONS:**
Bibliography of electron transfer in heavy particle collisions, 1950 - 1975. (A14, A12). 464344
Bibliography of ionization and stripping in heavy particle collisions, 1950 - 1975. (A14, A12). 464345
Bibliography of molecular dissociation in heavy particle collisions, 1950 - 75. (A14). 459945
Collision-induced dissociation of polyatomic ions. (A12; 100 eV to 100 keV). 477722
Interaction between a high Rydberg atom (ion) and a neutral molecule. (A12). 467254
- adiabatic approximation**
Study of the validity of adiabatic approximation in the $He^{sup(*)}-He^+$ collision. (A12). 471388
- alkynes**
Internal energy effects of primary ion on the ion-molecule reactions of deuterio-acetylene. (B14). 472548
- aromatics**
Energy dependence of intensities of secondary ions from ethylbenzene formed in dissociative charge transfer reaction with rare gas ions. (B14). 468980
- auger effect**
Auger electron emission from target ions under heavy-ion impact after molecular dissociation. (A12). 462134

- charge exchange**
Double electron transfer and related reactions. (A12; Cross sections, reaction kinetics). [Data] 477701
- chemical reaction kinetics**
Electronic transitions in the ion-molecule reaction ($\text{Ar}^+ + \text{H}_2$ bold-arrow-left-right $\text{Ar} + \text{H}_2^+$) $\rightarrow \text{ArH}^+ + \text{H}$. (A12). 477705
Investigation of ion-molecule reactions using a drift tube with separated ion source. (A12). 488862
Reactions of $\text{Ar}^{2+}(\text{P})$ with CH_4 , C_2H_2 and NO_2 , of $\text{Ar}^{2+}(\text{S})$ with H_2 , N_2 , O_2 , CO_2 , C_2H_2 and CH_4 and of Ar^+ with CH_4 and NO_2 . (A12). 488909
Some reactions of Ar^{2+} with atoms and molecules at 300 K. (A12). 488907
- chemiluminescence**
Light emission in collisions of C^+ ions with N_2 molecules. (A12). 471353
- coincidence spectrometry**
Photoelectron - secondary ion coincidence technique for the study of ion-molecule reactions. (A12). 474606
- cross sections**
State-selected ion-molecule reactions by a coincidence method. (A12). 467239
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- cyclotron resonance**
Determination of ion-molecule collision frequencies by Fourier transform ion cyclotron resonance spectroscopy. (A12). 477805
- elastic scattering**
Study of elastic collision between ion and molecule and development of ion cyclotron resonance technique. (A12). 467220
- electron capture**
Electron capture in H^+ - H_2 collisions. (A12). 488890
Electron capture by 0.1-13 keV C^+ , N^+ and O^+ ions in H and H_2 . (A12). [Data] 462138
- electrons**
Energy and angular distributions of electrons ejected from atoms and molecules by 0.4 - 3.0-MeV ion impact. (A12). 471377
- emission spectra**
Spectroscopic study on electronic and ionic impacts of simple molecules with crossed-beam technique. (A12). 467333
- energy losses**
Inelastic collisions of Li^+ with molecules. (A12). 467235
- energy transfer**
Modified statistical theory of energy transfer in ion-molecule collisions. (A12). 483166
Rotational-vibrational energy transfer in collisions of Li^+ with N_2 and CO in the 1-10 eV range. (A12). 477792
- excitation**
Measurement of the rotational energy distribution of ground state N_2^+ ions from H_2^+-N_2 collisions by laser-induced fluorescence. (A12). 488785
- hydrogen**
Electron capture by 0.1-13 keV C^+ , N^+ and O^+ ions in H and H_2 . (A12). [Data] 462138
- inelastic scattering**
Inelastic scattering of alkali ions (0.1 - 1.0 keV) by diatomic molecules. (A12). 467222
- ion pairs**
Measurements of ion clustering reactions using the drift tube method ($\text{K}^+ + \text{H}_2\text{O} + \text{N}_2$). (A12). 467299
- mass spectra**
Collision-induced dissociation of diatomic ions. (A12; Review, keV range). 477777
Ionic collisions as the basis for new types of mass spectra. (A12; Permutation and fragmentation reactions). [Data] 477764
- research programs**
Thermal-energy scattering of atoms in high Rydberg states. Annual progress report, July 1, 1978 - June 30, 1979. (A12; Summaries of research activities at Oregon State Univ.). 488851
- reviews**
Quasi-molecular model in heavy particle collisions. (A12). 485396
- rotational states**
Low-energy ion-polar molecule collision. (A12). 464098
A theoretical study of the low-energy ion-polar molecule collision. (A12). 471403
- vibrational states**
Vibrational excitation of CO , CO_2 and N_2O by Li^+ impact in the energy range from 70 eV to 1500 eV. (A12). [Data] 481036
- x-ray spectra**
Bonding effect in x-ray spectra induced by heavy ions. (A12). 467334
- ION-NEUTRALIZATION SPECTROSCOP:**
See ION SPECTROSCOPY
- IONIC CRYSTALS:**
crystal field
Solid state spectra of ions in crystals. (A13). 481147
electron-ion collisions
Electron-surface effects on ionic crystals. (A13). 467396
energy levels
Solid state spectra of ions in crystals. (A13). 481147
radiation effects
Dependence of solid irradiation effect on energy endowing ratio. (A13). 488999
sample preparation
Requirements and apparatus for diffusion studies in superionic conductors. (A13). 464225
- IONIZATION:**
See also AUTOIONIZATION; COULOMB IONIZATION; INNER-SHELL IONIZATION; PHOTOIONIZATION; SURFACE IONIZATION
- alpha particles**
Contribution to the study of ionization of elements by protons and alpha particles of 4 to 30 MeV. (A12). 467290
- charged-particle transport**
Spatial correlation of energy deposition events in irradiated liquid water. (C11, C55). [Data] 465894
- cross sections**
Method for the measurement of the mean ionizing cross-section of fast particles and of the corresponding charge produced. (A14, A32). 471705
- electric fields**
A hydrogen atom in a uniform electric field. (A12). 488786
- electron spectroscopy**
Dissociation, ionization, light- and electron-emission processes studied by optical, mass and electron spectroscopy. (A12). 467242
- electrons**
Direct measurements of $f(z)$ for fast electrons. (C11, C55). 465878
- energy losses**
On the statistics of particle identification using ionization. (E41). 470962
- fluctuations**
Ionization fluctuations in a gaseous medium. Part 1. The present theoretical status. (A12, E41). 483217
Ionization fluctuations in a gaseous medium. Part 2. Experimental results. (E41, A12). 485122
- irradiation**
Low pressure cloud chamber studies. (C11, C55). 463045
Low pressure cloud chamber studies. 1. Methods of analysis of ionisation distributions. (C11, C55). 465879
- m codes**
Spatial correlation of energy deposition events in irradiated liquid water. (C11, C55). [Data] 465894
- protons**
Contribution to the study of ionization of elements by protons and alpha particles of 4 to 30 MeV. (A12). 467290
- random phase approximation**
Ionization of inner shells of atoms taking account of outer shell rearrangement. (A12). 477697
- spectroscopy**
Sequential multiphoton ionization spectroscopy: extension of a useful spectroscopic tool. (A12). 477841
- water**
The standard enthalpy of ionization of water at 298 K from calorimetric measurements on iodine pentoxide. (B12). 464050
- IONIZATION CHAMBERS:**
See also BRAGG GRAY CHAMBERS; CONDENSER IONIZATION CHAMBERS; EXTRAPOLATION CHAMBERS; FISSION CHAMBERS; LIQUID IONIZATION CHAMBERS; WALL-LESS COUNTERS
- accelerators**
Ionization chamber. (E41, E16). 474126
- alpha detection**
Fano factor in gas mixture of $\text{Ar} + 10\% \text{CH}_4$. (E41). 492116
- backscattering**
Determination of backscattering coefficients for low energy electrons in different gases. (C11, C55). 465892
- beta detection**
A differential ionization chamber for the determination of small differences in decay rates of beta emitters. (E41). 492046
- beta sources**
Ionization detector. (D22). 494671
Ionization detector utilizing tritiated scandium with an acceptable tritium emanation rate at high temperature. (D22, B11; Patent). 466470
- calibration**
Examination of the factors $A/\text{sub } c/$ and $A/\text{sub } eq/$ for cylindrical ion chambers used in cobalt-60 beams. (D15, E41). 491407
- calibration standards**
A reference radiation source for stability control of ionization chambers used for soft X-rays. (E41). 461854
Some aspects of the present calibration difficulties in Radiology in Spain. (D15). 476846
- cat scanning**
X-ray detector. (E41). 470852
- charged particle detection**
Charged particle counters in the pre-modern period. (E41). 485028
- configuration**
A two-detector method for relative activity measurements with cylindrical ionization chambers. (E41, D15). 477353
- cosmic ray detection**
An instrument to measure the spectrum of cosmic ray iron and other nuclei to above 100 GeV/nucleon. (E41, A15). 480744
- energy losses**
Ionisation measurements and the derivation of anti $W_{\text{sub}}(n)$ in acetylene and carbon dioxide irradiated with neutrons. (E41, A31). [Data] 474055
- fast neutrons**
Neutron sensitivity of a carbon-walled CO_2 -filled ionisation chamber. (E41). [Data] 463717
- fission fragment detection**
Ionization chamber telescopes for position determination and nuclear charge identification of fission fragments. (E41). 470974
- ion density**
Calculated saturation curves and ion densities of ionization chambers. (E41). 466793
- neutron detection**
Neutron-sensitive ionization chamber. (E41, E24). 485101
- neutron detectors**
Neutron ionization chambers. (E41). 485075

- operation**
 Ionization chambers. (E41). 485065
- particle identification**
 Particle identification by ionization measurements in the LEP-JET detector. (E41, E16, A20). 470968
- physical radiation effects**
 Performance of x-ray measurement instruments when subjected to environmental level RF fields. Final limited study. (E43). 474162
- radiation dose distributions**
 Apparatus for studying interface effects by measuring ion dose distributions. (C11, C55). 465926
- radiation doses**
 Microdosimetric results obtained by proportional counter and ionization chamber methods: a comparison. (C11, C55). 465933
- radiology**
 Some aspects of the present calibration difficulties in Radiology in Spain. (D15). 476846
- samarium 151**
 Improved ionisation detectors. (D22). 473594
- sensitivity**
 Energy dependence of the neutron sensitivity of C-CO₂, Mg-Ar and TE-TE ionisation chambers. (E41). 492175
- spatial resolution**
 Contribution to the local resolution in measurements using detectors with a cylindrical section. (E41, C61, C45). 470937
- specifications**
 Ionization chamber telescopes for position determination and nuclear charge identification of fission fragments. (E41). 470974
- Multiple-plate total-absorption ionization spectrometer based on compressed gas. (E41). 470831
- stopping power**
 Effective mass stopping power ratio in photon dosimetry. (C55). 473318
- Phase effects in stopping power for low-energy heavy charged particles. (C11, C55). 461005
- tissue-equivalent detectors**
 Wn, computed from recent nuclear data and W measurements. (C11, C55). 460959
- tomography**
 Improvements in X-ray detectors. (E41). 492178
- Improvements in X-ray detectors. (E41). 492179
- trace amounts**
 Pixe measurements at J.Stefan institute. (E41). 485042
- uses**
 Ionization chambers. (E41). 485065
- x-ray detection**
 Improvements in X-ray detectors. (E41). 492179
- Improvements in X-ray detectors. (E41). 492178
- IONIZATION GAGES:**
 Manometers for extremely low pressure. (E42). 492214
- stellarators**
 Fast acting ionization vacuum gauge for JIPP T-II torus. (A14). 467585
- tokamak devices**
 Fast acting ionization vacuum gauge for JIPP T-II torus. (A14). 467585
- IONIZATION LOSS:**
 See ENERGY LOSSES
- IONIZATION POTENTIAL:**
differential cross sections
 Study of the spatial variation of macroscopic quantities in a weakly ionized gas. (A12). [Data] 488880
- hexane**
 Determination of the ionisation potential of certain hydrocarbons in the liquid phase. (B14, C11). [Data] 460584
- IONIZED GASES:**
 See also LORENTZ GAS; WEAKLY IONIZED GASES
 Plasma-wall coupling by excited near-surface plasma region. (A12). 464016
- boundary layers**
 Ionizing argon boundary layers. (A13). [Data] 474828
- electric conductivity**
 Semiclassical perturbation theory of electron-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
- electron-atom collisions**
 Minimization of the effective electron-neutral particle collision cross section in partially ionized noble gases. (A12). 483149
- electrophoresis**
 Volume forces in weakly ionized plasmas. (A14). 478031
- hydromagnetic waves**
 The effects of ionization on the jump conditions for MHD and transverse ionizing shock waves. (A14). [Data] 478021
- shock waves**
 The effects of ionization on the jump conditions for MHD and transverse ionizing shock waves. (A14). [Data] 478021
- IONIZING RADIATIONS:**
 See also COSMIC GAMMA BURSTS; COSMIC RADIATION; COSMIC SHOWERS; DELAYED GAMMA RADIATION; EXTENSIVE AIR SHOWERS; GAMMA RADIATION; HARD X RADIATION; PRIMARY COSMIC RADIATION; PROMPT GAMMA RADIATION; SECONDARY COSMIC RADIATION; SOFT COMPONENT; SOFT X RADIATION; X RADIATION
- animal feeds**
 Method to treat a product infested with microorganisms with ionizing radiation and heat. (C43). 469854
- biological radiation effects**
 Iatrogenic leukemia. (C15). 473014
- carcinogenesis**
 Multiple carcinomas following therapy for Hodgkin disease. (C15, C63; Sensitizing effects of subsequent chemotherapy). 466171
- Offspring of patients treated for cancer in childhood. (C15). 487260
- Risk of breast cancer following low-dose radiation exposure. (C15, C61, C63). 490984
- delayed radiation effects**
 Delayed effects of ionizing radiations. (C15). 469704
- Evaluation of the somatic radiation risks and the recommendations in the ICRP publication no. 26 (1977). (C55, C15). 487646
- health hazards**
 Health effects of low-level ionizing radiation. (C15). 487247
- Women in the workplace: a panel discussion. (C15). 461075
- mutagenesis**
 Offspring of patients treated for cancer in childhood. (C15). 487260
- mutagens**
 Radiation mutagens and their mechanism of action. (C11). 482001
- plant growth**
 The stimulation of growth by ionizing radiation. (C41). [Data] 476636
- radappertization**
 Method to treat a product infested with microorganisms with ionizing radiation and heat. (C43). 469854
- radiation chemistry**
 Application of ionizing radiations. (B14, D23). 468972
- radiation hazards**
 Administration of the Radiation Control for Health and Safety Act of 1968. Public Law 90-602. April 1, 1978 (1977 annual report). Report for 1 January-31 December 1977. (C15, C53). 487238
- Living with radiation. (C55, C15). 491258
- radiation protection**
 Criteria for the classification of areas of work and workers regarding risks from ionising radiation. (C53). 463395
- Ionising radiations. Joint consultative document. Supplementary proposals for provision on radiological protection and draft advice from the National Radiological Protection Board to the Health and Safety Commission. (C53, C54). 463397
- recording systems**
 Ionizing radiation recording material. (E41; insensitive to light). 474042
- Recording material sensitive to ionizing radiations. (E41; insensitive to light). 474041
- risk analysis**
 A perspective on the radiation protection problem and risk analysis for the nuclear era. (C15). [Data] 482078
- roots**
 The stimulation of growth by ionizing radiation. (C41). [Data] 476636
- toxicity**
 Cancer and Toxicology Section. (C15). 472990
- uses**
 Application of ionizing radiations. (B14, D23). 468972
- IONOGRAPHIC IMAGING:**
 (A process whereby a pattern of electrical charges is formed on a foil by the accumulation of ions from a gas of high atomic number ionized by the incident radiation.)
- comparative evaluations**
 Ionography: Mammography system of the future. (C61). 484706
- IONOPHORESIS:**
 See ELECTROPHORESIS
- IONOSPHERE:**
 (See also D REGION; E REGION; F REGION; F2 LAYER; SPREAD F
- absorption**
 Ionospheric absorption measurements using a sweep frequency technique. (B33). 481958
- beam-plasma systems**
 Space experiments with particle accelerators: SEPAC. (E16). 477043
- charged-particle precipitation**
 Case study of the aurora, high-latitude ionosphere, and particle precipitation during near-steady state conditions. (B33). [Data] 465864
- Nighttime ionization by energetic particles at Wallops Island in the altitude region 120 to 200 km. (B33). 465861
- charged-particle transport**
 Effect of anomalous transport coefficients on the thermal structure of the storm time auroral ionosphere. (B33). 465833
- chemical composition**
 Various measurements of atmospheric parameters from incoherent scattering of nightglow. (B33). 479726
- cyclotron instability**
 Turbulent transport and heating in the auroral plasma of the topside ionosphere. (B33, A14). [Data] 469560
- diagrams**
 Increased accuracy with simple methods of ionogram analysis. (B33). [Data] 463026
- disturbances**
 Perturbations associated with a plasma release in the ionosphere. (B33). 484405
- drift instability**
 Lower hybrid drift instability in the ionosphere. (A14). 489181
- electric currents**
 Ionospheric electric fields and currents of magnetospheric origin. (B33; Modeling calculation, global distribution). 479714
- electric fields**
 Double layers and electrostatic shocks in space. (B33). 490853
- Effects of convection electric field on the thermal plasma flow between the ionosphere and the protonosphere. (B33). 479708
- Explanation for anomalous equatorial ionospheric electric fields associated with a northward turning of the interplanetary magnetic field. (B33). 490862

- Field-aligned currents, convection electric fields, and ULF-ELF waves in the cusp. (B33). 490885
- Ionospheric electric fields and currents of magnetospheric origin. (B33; Modeling calculation, global distribution). 479714
- electromagnetic radiation**
- Measurements of shift velocities of ionospheric irregularities. (A15). 471867
- electron beams**
- Effect of a neutral N_2 cloud on the electrical charging of an electron beam-emitting rocket in the ionosphere: Echo IV. (B33). 490858
- electron density**
- Energetic particles and ionization in the nighttime middle and low latitude ionosphere. (B33). 487164
- Model starting heights for N(h) analyses of ionograms. (B33). 472880
- Various measurements of atmospheric parameters from incoherent scattering of nightglow. (B33). 479726
- electron precipitation**
- Energetic particle measurements from within ionospheric structures responsible for auroral acceleration processes. (B33). [Data] 465858
- On the energetic electron precipitation at the interaction with a plasma jet injected from a missile board in the ionosphere. (B33). 484409
- electron temperature**
- Electron temperature profiles measured up to 8000 km by S3-3 in the late afternoon sector. (B33). 490882
- Heat conduction at the plasmopause and the response of the neutral atmosphere during the times of 6300A (O I) emissions. (B33). 460938
- Temperature domains in the ionosphere. (A14, B33). 467680
- heating**
- Initial results of the sounding rocket campaign 'Polar High Atmosphere'. (B33). 484426
- Rocket experiments in conjunction with the ionospheric modification experiment in northern Norway. (B33). 484425
- helium ions**
- Quantitative calculations of helium ion escape fluxes from the polar ionospheres. (B33). [Data] 465855
- hybrid resonance**
- Electrostatic drift waves around the lower hybrid resonance frequency in the ionosphere. (B33, A14). 460929
- ion plasma waves**
- Ion cyclotron waves generated by an ionospheric barium injection. (B33). [Data] 465844
- ionization**
- Energetic particles and ionization in the nighttime middle and low latitude ionosphere. (B33). 487164
- landau damping**
- Nonlinear Landau damping in the ionosphere. (B33). 487150
- long wave radiation**
- Propagation characteristics of ground observed VLF waves after emerging from the ducts in the ionosphere. (B33). 472892
- manuals**
- U.R.S.I. handbook of ionogram interpretation and reduction. (Second edition, November 1972) Revision of chapters 1-4. (B33). 472886
- neutral atom beam injection**
- Effect of a neutral N_2 cloud on the electrical charging of an electron beam-emitting rocket in the ionosphere: Echo IV. (B33). 490858
- parametric instabilities**
- Ionospheric modification and parametric instabilities. (B33). [Data] 465832
- plasma drift**
- Plasma flow in the mid-latitude ionization trough. (B33). 487160
- plasma heating**
- Ionospheric modification and parametric instabilities. (B33). [Data] 465832
- Turbulent transport and heating in the auroral plasma of the topside ionosphere. (B33, A14). [Data] 469560
- research programs**
- Spacelab mission 2 experiment descriptions. (B33, A15, A22). 490842
- scintillations**
- Seasonal and diurnal dependence of ionospheric scintillations in natal - RN (Brazil). (A15). 471868
- wave propagation**
- Physics in the ionosphere. (B33). 465848
- IONOSPHERIC STORMS:**
See also **SUDDEN IONOSPHERIC DISTURBANCE**
- IONS:**
(Ions in liquid and solid solutions are indexed as compounds; ions in gases by the precoordinates descriptor consisting of the element name and the word IONS; ions in beams by assigning either the specific descriptor if available, e.g. ARGON 40 BEAMS or the isotope name together with ION BEAMS.)
- acceleration**
- Debye-length discrimination of nonlinear laser forces acting on electrons in tenuous plasmas. (A14). 478000
- Ion acceleration in an expanding rarefied plasma with non-Maxwellian electrons. (A14). 478059
- adsorption**
- Adsorption on mixtures of ion exchangers. (B11). 472393
- charged-particle transport the**
- Perturbation treatment of thermal motions in gaseous ion-transport theory. (A12). 477821
- chemical reaction kinetics**
- Synchrotron radiation and atom pair correlation functions in electrolyte solutions. (B12). 472466
- current density**
- Ionic density on the cathode in a plasma source. (A14). 492790
- cyclotron instability**
- Magnetic gradient effects on the universal drift instability. (A14). 464513
- electronic structure**
- Multiconfiguration Hartree-Fock method for atomic energy levels and transition probabilities. (A12). [Data] 492528
- extraction chromatography**
- Theory of mass-discrimination effects in ion extraction from a plasma of wide pressure range. (A14). 467521
- form factors**
- Correlations between $r_{sub}(\pi)_{sup}(2)$, $a_{sub}(\mu)(\pi^+\pi^-)$ and error functionals of spacelike data for the pion form factor. (A21). 460205
- landau damping**
- Cold, electrostatic, ion-cyclotron waves and ion-ion hybrid resonances. (A14). 485790
- m1-transitions**
- Relativistic magnetic-dipole transitions in atoms, ions, and psions. (A12, A22). 477826
- p invariance**
- Parity violation effects in decay of autoionisable states of two-electron atoms and ions. (A12). 483194
- particle radii**
- Correlations between $r_{sub}(\pi)_{sup}(2)$, $a_{sub}(\mu)(\pi^+\pi^-)$ and error functionals of spacelike data for the pion form factor. (A21). 460205
- scattering**
- Ion scattering by atomic chains on a solid surface. (A32). 472129
- A new method for the calculation of ion scattering from single crystals; method and potentialities. (A13). 492682
- Oriental effects in charge state of ions scattered by single crystal. (A32). 472128
- slowing-down**
- Semiclassical perturbation theory of electron-polar molecule collisions: total excitation and scattering cross sections. (A12, A32; S matrix cross sections). 485499
- stopping power**
- A method for the calculation of the stopping power for ions in matter. (A12). 464069
- trajectories**
- Ion trajectories calculation in a three dimensional beam subjected to a space charge. (E16). [Data] 484874
- trapping**
- Trapping of ions injected from an external source into a three-dimensional R.F. quadrupole field. (D14). 480293
- IONS (ATOMIC):**
See **ATOMIC IONS**
- IONS (MOLECULAR):**
See **MOLECULAR IONS**
- IPP GARCHING:**
(Max-Planck-Institut fuer Plasmaphysik)
- computers**
- New supercomputer for the Max-Planck-Institut fuer Plasmaphysik. (A14). 483375
- international cooperation**
- Chinese statesman visits Garching research centre. (A14). 481209
- planning**
- The institute's strategy. (A14). 459943
- research programs**
- Fusion research on the road to ZEPHYR. (A14). 475153
- New research project of the Max-Planck-Institut fuer Plasmaphysik. (A14; Thermonuclear ignition to be achieved in the ZEPHYR plant). 483374
- IRAN:**
- background radiation**
- Transfer of the radium from the soil to plants in the area of high natural radioactivity in Iran, Ramsar. (C13, B31). 463091
- desalination reactors**
- The Bushehr 200,000 M^3/D desalination plant. (E23). 463601
- energy policy**
- Nuclear power development in Iran and international cooperation. (F11). 474307
- IRANIAN ORGANIZATIONS:**
See also **TEHRAN NUCLEAR RESEARCH CENTRE**
- IRI:**
(Interuniversitair Reactor Instituut)
Netherlands Interuniversity Reactor Instituut. (F62). 480957
- IRIDIUM:**
- absorption spectra**
- Effect of chemical environment on magnitude of x-ray absorption resonance at L/sub L/II edges. Studies on metallic elements, compounds, and catalysts. (B22). 486899
- activation analysis**
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425
- adsorption**
- Heats of chemisorption of O_2 , H_2 , CO , CO_2 , and N_2 on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
- emission spectroscopy**
- Simultaneous determination of platinum group metals and gold, in ores and related plant materials by inductively coupled plasma-optical emission spectrometry. (B11). 472401
- fracture properties**
- Brittle grain boundary fracture in iridium. (B22). 469274
- fractures**
- Brittle fracture in iridium. (B22, A16). 460716

- grain boundaries**
Brittle grain boundary fracture in iridium. (B22). 469274
- ionization potential**
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- neutron reactions**
Neutron capture cross sections of rhodium, thulium, iridium, and gold between 0.5 and 3.0 MeV. (A34). [Data] 472265
- quantitative chemical analysis**
The extraction of noble metals with *n*-octylaniline. (B12). [Data] 460516
- solvent extraction**
The extraction of noble metals with *n*-octylaniline. (B12). [Data] 460516
- IRIDIUM ALLOYS:**
See also IRIDIUM BASE ALLOYS
- chemical composition**
Selected advances in materials research. (B22, D21). 479380
- crystal lattices**
Structural and magnetic properties of Gd(Cosub(x)Irsup(1-x))₂. (A13). [Data] 471444
- electron spin resonance**
Effect of dilute Dy substitution on the Gd electron spin resonance in Gdsub(0.5)Ysub(0.5)Ir₂. (A13). 488961
- fabrication**
Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846
- intermetallic compounds**
Nd₃Ir₃: a new tetragonal phase with Ir-centred square antiprisms of Nd atoms. (B22). 484238
- magnetic moments**
Structural and magnetic properties of Gd(Cosub(x)Irsup(1-x))₂. (A13). [Data] 471444
- phase diagrams**
Thermodynamic investigation of the thorium-osmium and thorium-iridium systems. (B22). 472653
- superconductivity**
Effects of stoichiometry and neutron irradiation in superconducting A-15 compounds. (A17, B22, B25). 478387
- ternary alloy systems**
Ternary metal borides [La, Ce, Pr, Nd, Sm] Os₂B₄ and [Y, La, Ce, Pr, Nd, Sm, Gd, Tb] IrB₄B₄ with NdCo₄B₄-type structure. (B22). 479443
- IRIDIUM BASE ALLOYS:**
electron beam welding
Electron-beam welding of thorium-doped iridium alloy sheets. (B21; Ir-0.3% W 200 ppm Th-50 ppm Al). 479342
- electronic structure**
Electron spin resonance of Nd³⁺ in d band cubic intermetallic compounds. (B22, A17). 479364
- fabrication**
Platinum group alloy containers for radioisotopic heat sources. (D21). 482525
- gas metal-arc welding**
Electron-beam welding of thorium-doped iridium alloy sheets. (B21; Ir-0.3% W 200 ppm Th-50 ppm Al). 479342
- intermetallic compounds**
Superconductivity with europium. (A17, B22). 489700
- superconductivity**
Superconductivity with europium. (A17, B22). 489700
- IRIDIUM BORIDES:**
fabrication
Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846
- IRIDIUM COMPLEXES:**
electron spin resonance
Hyperfine interactions by EPR in iridium (II) hexachlorinated complex. (A13). 471524
- indazoles**
Studies on Ruthenium(III), Rhodium(III) and Iridium(III) complexes of indazoles. (B12). 481698
- IRIDIUM COMPOUNDS:**
See also IRIDIUM BORIDES; IRIDIUM FLUORIDES; IRIDIUM HYDRIDES
- absorption spectra**
Effect of chemical environment on magnitude of x-ray absorption resonance at L_{sub} 1/II edges. Studies on metallic elements, compounds, and catalysts. (B22). 486899
- crystal growth**
Formation of iridium silicides from Ir thin films on Si substrates. (B21). 486849
- diffusion**
Formation of iridium silicides from Ir thin films on Si substrates. (B21). 486849
- neodymium additions**
Contribution of crystal field excited state in the EPR spectra of the Nd in compounds of the AB₂ type (A=La, Y and B=Ir, Rh). (A13). 471466
- photolysis**
Reactivity of the carbonate radical toward metal complexes in aqueous solution. (B14). 472506
- IRIDIUM FLUORIDES:**
energy-level transitions
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- ionization potential**
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- (A12, E16; Spin- and nonspin-polarized calculations). 488886
- IRIDIUM HYDRIDES:**
energy-level transitions
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- ionization potential**
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- IRIDIUM IONS:**
electron spin resonance
Hyperfine interactions by EPR in iridium (II) hexachlorinated complex. (A13). 471524
- energy-level transitions**
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- ionization potential**
MS-X α calculations of the electron affinities and ionization potentials of some heavy metals and their hydrides and fluorides. (A12, E16; Spin- and nonspin-polarized calculations). 488886
- IRIDIUM ISOTOPES:**
See also IRIDIUM 183; IRIDIUM 184; IRIDIUM 186; IRIDIUM 187; IRIDIUM 189; IRIDIUM 191; IRIDIUM 192; IRIDIUM 193
- IRIDIUM 183:**
energy-level transitions
Fast beta transition in ¹⁸³Pt and the systematics of Nilsson states in the N = 105 isotones. (A34). 468570
- IRIDIUM 184:**
nuclear magnetic moments
Nuclear magnetic dipole moments of ¹⁸⁴Ir(3h), ¹⁸⁶Ir(15.8h), ¹⁸²Re(64h) and ¹⁸²Re(12h). (A34). 490242
- IRIDIUM 186:**
nuclear magnetic moments
Nuclear magnetic dipole moments of ¹⁸⁴Ir(3h), ¹⁸⁶Ir(15.8h), ¹⁸²Re(64h) and ¹⁸²Re(12h). (A34). 490242
- IRIDIUM 187:**
rotational states
On the triaxial deformation in transitional odd-A nuclei. (A34). 465242
- The particle asymmetric rotor descriptions of ¹⁸⁷⁻¹⁹³Ir positive parity states. (A33). [Data] 472217
- vibrational states**
On the triaxial deformation in transitional odd-A nuclei. (A34). 465242
- IRIDIUM 189:**
rotational states
On the triaxial deformation in transitional odd-A nuclei. (A34). 465242
- The particle asymmetric rotor descriptions of ¹⁸⁷⁻¹⁹³Ir positive parity states. (A33). [Data] 472217
- vibrational states**
On the triaxial deformation in transitional odd-A nuclei. (A34). 465242
- IRIDIUM 191:**
e2-transitions
Observation of a time-reversal-like phase shift between competing multipoles in a nuclear gamma transition. (A34, A21). [Data] 465137
- m1-transitions**
Observation of a time-reversal-like phase shift between competing multipoles in a nuclear gamma transition. (A34, A21). [Data] 465137
- rotational states**
The particle asymmetric rotor descriptions of ¹⁸⁷⁻¹⁹³Ir positive parity states. (A33). [Data] 472217
- IRIDIUM 191 TARGET:**
neutron reactions
The measurements and evaluation of fast neutron cross section data for reactor dosimetry. (A34, E21). [Data] 483900
- triton reactions**
Two-quasiproton states in ¹⁹⁰Os and ¹⁹²Os studied with the (t, α) reaction. (A34). 490122
- IRIDIUM 192:**
biological half-life
Estimation of long-term biological elimination of insoluble ¹⁹²Ir from the human lung. (C21). 491016
- energy-level transitions**
On the parity of the ground state of ¹⁹²Ir. (A34). 468546
- gamma spectra**
Specific γ -ray constant and exposure rate constant of ¹⁹²Ir. (C15). 469694
- parity**
On the parity of the ground state of ¹⁹²Ir. (A34). 468546
- radiation source implants**
After-loading transperineal iridium-192 wire implantation of the prostate. (C15, C64; Complications following interstitial radiotherapy). 487263
- IRIDIUM 193:**
rotational states
The particle asymmetric rotor descriptions of ¹⁸⁷⁻¹⁹³Ir positive parity states. (A33). [Data] 472217
- IRIDIUM 193 TARGET:**
neutron reactions
The measurements and evaluation of fast neutron cross section data for reactor dosimetry. (A34, E21). [Data] 483900
- triton reactions**
Two-quasiproton states in ¹⁹⁰Os and ¹⁹²Os studied with the (t, α) reaction. (A34). 490122

- IRON:**
 See also *IRON-ALPHA*
 Enhancement of mechanical strength in hot-pressed TiB₂ composites by the addition of Fe and Ni. (B23). 462928
 Partitioning of iron to Zr₃Al during the peritectoid transformation $Zr + Zr_3Al \rightarrow Zr_3Al$. (B22, B21, E22). 465647
- absorption spectroscopy**
 A comparative study of mineralization methods applied to the determination of trace metals in suspensions by atomic absorption. (B11). [Data] 493483
 Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- activation analysis**
 Athens 1° x 2° NTMS area, Georgia and South Carolina: preliminary basic data report. (B31, B11). 465760
 Elemental composition of platelets. Part II. Water content of normal human platelets and measurements of their concentrations of Cu, Fe, K, and Zn by neutron activation analysis. (B11; Neutrons). 486521
 Evaluation of some procedures relevant to the determination of trace elemental components in biological materials by destructive neutron activation analysis. (B11). 468595
 Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428
 Harrisburg 1° x 2° NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
 Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
- adsorption**
 Heats of chemisorption of O₂, H₂, CO, CO₂, and N₂ on polycrystalline and single crystal transition metal surfaces. (B22, B12). [Data] 486932
 Iron adsorption on tungsten. (B22). 476341
- atom transport**
 Mechanism of pulsed magnetic field effect on the atom mobility into iron and aluminium. (B22). 460730
- barium 131**
 Lattice location of Ba after (recoil) implantation into Ni and Fe. (A13, A34). 488937
- biological effects**
 Cadmium toxicity in the pregnant rat. (C21; /sup 115m/Cd). 461097
- carbon 13**
 The transient magnetic field for ¹³C in iron. (A13). 467390
- catalysis**
 Hydrocarbon conversion with cracking catalyst having co-combustion promoters lanthanum and iron. (B12; Patent). 478925
- chemical analysis**
 Nuclear resonance fluorescence: new technique for in vivo iron determination in man. (C62, B11). [Data] 491361
 Quantitative determination of tritium in metals and oxides. (B11). 486554
- chemical composition**
 Depletion of interstellar gaseous iron. (A15). 489623
- chemical reactions**
 The interaction of CsI with high-chromium alloys in the presence of oxygen. (B15). 493828
 Reactions of the excited states of substituted polypyridinechromium(III) complexes with oxygen, iron(II) ions, ruthenium(II) and -(III), and osmium(II) and -(III) complexes. (B12). 460446
- chemical state**
 Study on alteration of a continental (flood) basalt by Fe-57 Moessbauer technique. (B11). [Data] 493521
- corrosion**
 Corrosion, stress corrosion cracking, and electrochemistry of the iron and nickel base alloys in caustic environments. Progress report, March 1, 1978 - February 28, 1979. (B15). 460629
 Moessbauerspectroscopic studies of the corrosion of iron. (B15). 486784
- corrosion inhibitors**
 Corrosion inhibiting additions for iron in the neutral region. (B15). 465496
- cosmochemistry**
 Discovery of 1.1 keV iron line emission in the spectrum of the M87/Virgo cluster X-ray source. (A15). 464607
 Iron abundances in G and K giants from near-infrared spectra. (A15). 475203
 Relative abundances in metal-poor stars. II. The carbon-to-iron ratio. (A15). 475377
- creep**
 Kinetics of deformation twinning initiation in iron during high-temperature creep. (B22). 484199
- crystal structure**
 Electronic properties of metals, alloys and molecules. Final report. (B22, B23, A17). 465667
- deuteron reactions**
 Thick-target neutron and γ-ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- diagnostic techniques**
 Nuclear resonant scattering of gamma rays - a new technique for in vivo measurement of body iron stores. (C61, B11). 491293
- diffusion**
 Study of interdiffusion of Ni/Fe layers by Auger sputter profiling. (A13). 459792
- dissolution**
 Kinetics of solution and diffusion coefficients of iron, cobalt and nickel in liquid aluminium. (B22). 469159
- earth atmosphere**
 On the determination of sources of iron in atmospheric air by the Moessbauer technique. (B33). 460926
- electrochemical corrosion**
 Anodic behaviour of iron in fluoride-chloride melt. (B15). 469018
- electron beams**
 Neutron and photon measurements through concrete from a 15 GeV electron beam on a target-comparison with models and calculations. (A32). 468246
- electronic structure**
 Low-energy interband absorption in bcc Fe and hcp Co. (B22). 486937
- electrons**
 Depth selection by means of scattered electrons: Monte Carlo calculation of energy distribution. (A13). 471532
 Re-study of the electron binding energies of an iron core by photoelectron spectroscopy and study of line asymmetry. (A13). 471469
- element abundance**
 Iron Kα-fluorescence in solar flares: A probe of the photospheric iron abundance. (A15). 483430
- emission spectroscopy**
 Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
 Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). [Data] 490812
- energy-level transitions**
 Solar coronal lines 1175 - 1965 Å. (A15). [Data] 464654
- excitation**
 K X-rays of Al, Ti, Cr, Fe and Ni induced by nitrogen ions. (A12). 467157
- fatigue**
 Structural peculiarities of fatigue fracture of iron with a soft electroplate. (B22). 469150
- fermi level**
 Electronic properties of metals, alloys and molecules. Final report. (B22, B23, A17). 465667
- fluorescence**
 Iron Kα-fluorescence in solar flares: A probe of the photospheric iron abundance. (A15). 483430
- forbidden transitions**
 Iron forbidden lines in tokamak discharges. (A14). 464485
- frenkel defects**
 Spontaneous recombination volumes of Frenkel defects in neutron-irradiated non-fcc metals. (B25). [Data] 465737
- gamma dosimetry**
 Polynomial form of gamma-ray buildup factor functions. (D15, A32). [Data] 491410
- grain boundaries**
 Electron microscopy study of grain boundaries in iron, molybdenum and stainless steel. (B22). 476305
- hadron reactions**
 On the "depth" dependence of energy flux absorption range in the iron absorber of an ionization calorimeter. (A22). 468190
- halides**
 PES of high temperature vapors. VIII. Transition metal dihalides. (A10). 466990
- indium additions**
 Nuclear orientation and NMR/ON on implanted sup(114m)In in Fe and Co. (A13). 467424
- inner-shell ionization**
 Atomic inner-shell ionization cross sections for 2-5 MeV alpha particles. (A12). 463954
- internal friction**
 The α and γ peaks in pure iron. (B22). 472674
 Internal friction and magnetic after-effect anomalies in pure iron at low temperatures. (B22). 472632
 Low temperature internal friction in pure iron charged with hydrogen or deuterium. (B22). 472660
- ion collisions**
 Target and projectile cross sections for F ions on Ti, V, Cr, Fe, and Co: 1.7 MeV/amu. (A12). 488896
- ion exchange chromatography**
 Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ion implantation**
 Influence of radiation damage evolution on lattice-location, measurements for Yb and Au in iron. (A13). 459794
 Influence of radiation damage evolution on hyperfine interactions of implanted impurities: ¹⁶⁹Tm and ¹⁷⁵Lu in Fe. (A13). 459833
 Production of amorphous alloys by ion implantation. (A13). 477883
 Relation between hyperfine field and lattice location measurements for heavy impurities in iron: influence of radiation damage. (A13). 459832
 TEM study of amorphous alloys produced by ion implantation. (B25, A13). 481894
- isotope effects**
 Some regularities in isotopic changes of light and intermediate nucleus shape. (A34). 493439
- magnetic moments**
 The magnetic moment of iron in Gd-Fe intermetallic compounds. (A13). 481062
- magnetic properties**
 Phonon spectroscopy and forbidden transitions in rare earths and transition metal ferromagnets. (B22). 479373
- mechanical properties**
 Dislocation structure and mechanical properties of armco iron under plane rolling. (B22). 484274

- metallurgy**
Sintering kinetics of pure and doped boron carbide. (B23). 494072
- monitoring**
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
Radionuclides and trace metals in surface air. (B33, C52, B11). [Data] 476482
- muon probes**
Diffusion of positive muons in nickel and iron. (A13). 474770
- muonic atoms**
Capture of muons in atoms. (A12; Lecture, atomic cascade). [Data] 492549
Cascade of negative muons in atoms. (A12; Angular momentum, capture cross section, relative rates). [Data] 485386
- neutrino-nucleon interactions**
Comparison of moments from the valence structure function with QCD predictions. (A22). 483695
- neutron diffraction**
New effects of magnetic critical phenomena in iron. (A13). [Data] 474730
- neutron leakage**
Application of pulsed neutron technique for integral neutron cross-section tests in the MeV range. (A31). 478580
- neutron reactions**
Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). 486389
Competition of radiative transitions and neutron emission at the decay of unbonded states of iron and copper. (A34). 481572
Resonance analysis of neutron transmission measurements on natural iron samples. (E35, A31). 495011
Scattering of MeV neutrons from elemental iron. (A34; Angular distribution, cross sections, 1.5 to 4.0 MeV). [Data] 486457
Status of ENDF/B-V neutron emission spectra induced by 14-MeV neutrons. (A34; Partial and total spectra, cross sections, graphs). [Data] 478734
Study of the systematics for (n,2n) reactions. (A34; 14.8 MeV). 460363
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- neutron transport**
Linearity assumption in adjustment procedures. (E41, A31). 466839
Radiation transport calculations and measurements for reactor pressure vessel damage studies. (A31, E22). 460260
- nitridation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
- nuclear magnetic resonance**
Nuclear orientation and NMR/ON on implanted sup(114m)In in Fe and Co. (A13). 467424
- nutritional deficiency**
Transplacental passage of plutonium in iron-deficient mice. (C21; ²³⁹Pu). [Data] 473083
- oxidation**
A comparison of the high temperature nitridation and oxidation behaviour of metals. (B15). [Data] 460630
High-temperature oxidation of iron, Fe-0.5 wt. % Al and Fe-1 wt% Al alloys in CO₂ at atmospheric pressure. (B15). 490508
- passivation**
Action of oxidizing agents during chemical passivation of iron. (B15). 465495
- phase transformations**
Computer simulation of martensitic transformations in idealized systems. (B22). 486874
- photon transport**
Removal of negative albedo terms in gamma-ray albedo data. (A32). 460274
- photons**
Measurement of number albedo of backscattered photons. (A32). 468239
- photonuclear reactions**
Intermediate-energy isomeric ratios of some photospallation residuals from targets in the vanadium-cobalt region. (A34). [Data] 483664
- physical radiation effects**
Estimation of spatial distribution of hydrogen and helium slow ions implanted in solids. (A13). 492554
Irradiation of iron at 20 K by fast neutrons and fission products of uranium 235. (A13, B25). 474745
Mechanical properties of ferrous alloys after fast neutron-irradiation at high temperature. (B25). 484313
The recovery stage of vacancies in Mo, W and Fe studied by doping experiments. (B25). 469461
Spontaneous recombination volumes of Frenkel defects in neutron-irradiated non-fcc metals. (B25). [Data] 465737
- pion minus reactions**
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- pion plus reactions**
Low energy π^+ scattering from light nuclei. (A34). 475800
Low-energy pion scattering. (A34; 50 MeV, differential cross sections). 468473
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- pion-nucleon interactions**
A new measurement of $\sigma_{\text{sigmasup(inel)sub(p-Fe)}}$ and $\sigma_{\text{sigmasup(inel)sub(\pi-Fe)}}$ at high energies. (A22). 483703
- point defects**
Point defect relaxation in irradiated B.C.C. metals. (B25). 469443
- positrons**
Positron lifetime measurements of electron-irradiated iron and iron-carbon. (A13). [Data] 489014
- proton reactions**
Excitation functions for radioactive isotopes produced by proton bombardment of Fe, Co, and W in the energy range from 10 to 60 MeV. (A34). 490235
Measurement and hybrid model analysis of excitation functions of proton-induced reactions with titanium, vanadium, iron, cobalt and nickel in the energy range of 10-45 MeV. (A34). [Data] 460327
Thick-target neutron and γ -ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- proton-neutron interactions**
A new measurement of $\sigma_{\text{sigmasup(inel)sub(p-Fe)}}$ and $\sigma_{\text{sigmasup(inel)sub(\pi-Fe)}}$ at high energies. (A22). 483703
- proton-proton interactions**
A new measurement of $\sigma_{\text{sigmasup(inel)sub(p-Fe)}}$ and $\sigma_{\text{sigmasup(inel)sub(\pi-Fe)}}$ at high energies. (A22). 483703
- pulsed neutron techniques**
Application of pulsed neutron technique for integral neutron cross-section tests in the MeV range. (A31). 478580
- reflection**
Low-energy interband absorption in bcc Fe and hcp Co. (B22). 486937
- resonance scattering**
Nuclear resonant scattering of gamma rays - a new technique for in vivo measurement of body iron stores. (C61, B11). 491293
- secondary emission**
A comparison of experimental secondary ion energy spectra of polycrystalline metals with theory. (A13). [Data] 471558
- shales**
Uranium reconnaissance survey of British Lower Palaeozoic shales: trace elements related to clay mineralogy. (B31). 479566
- shielding**
Shielding benchmark problems. (A31). [Data] 490011
- sliding friction**
Investigation of high-temperature friction in vacuum. (B22). 469175
- solubility**
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
- spark machining**
Effect of polymorphism on iron and iron alloy fracture induced in electrosark machining. (B22; Fe-3.2% Si, Fe-5% Sn, Fe-8% Mo, Fe-10% W). 490578
- sputtering**
Measurements of sputtering yields for low-energy plasma ions. (A14). 475107
- stopping power**
On the extension of possibilities of the method for determining stopping powers from backscattering spectra in the case of multicharged ions. (A32; nitrogen ions). 464942
- tensile properties**
Mechanical properties of ferrous alloys after fast neutron-irradiation at high temperature. (B25). 484313
- terbium 155**
Moessbauer spectroscopy on ¹⁵⁵Tb sources produced by recoil implantation in iron and nickel. (A13, A34). 489026
- welded joints**
Feculiarities of weld formation during speed pressure welding. (B22, B21). 465616
- welding**
Pressure welding of armco-iron using intermediate layers of sintered nickel. (B22). 465604
- x radiation**
Proton-induced K x-ray production from Ca to Fe for 0.2 to 0.5 MeV incident energy. (A12). [Data] 488863
- x-ray fluorescence analysis**
Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- x-ray spectra**
Theory for the Lsub(2,3) soft x ray appearance spectra for the 3d transition metals. (A13). 481139
- yield strength**
Effect of relaxation processes on initial stages of flow in iron. (B22). 490618
- ytterbium 172**
The magnetic hyperfine fields of Yb in Fe and Ni. (A13, A34). 488934
- IRON ADDITIONS:**
See also ALLOY-KHN78T; ALLOY-VT1-0; ALLOY-VT15; ALLOY-VT22; ALLOY-VT3-1; ALLOY-VT6; ALLOY-VT9; ZIRCALOY 2
phase transformations
Study of Fesub(x)Nbsub(x)Vsub(2-2x)Osub(4) by NMR method. (B12). 465437
- IRON ALLOYS:**
See also more specific entries as listed in the INIS Thesaurus.
anisotropy
Effect of rare earth and transition metal substitution on the anisotropy of R₃Co₁₇ compounds (R = Er, Tm, Yb). (B22). 479423
Effect of rare earth and transition metal substitution on the anisotropy of R₃Co₁₇ compounds (R = Er, Tm, Yb). (B22). 479423

- catalysis**
Intermetallic compounds as catalysts for hydrogenation of carbon oxides. (B22). 479384
- cermets**
Structure and properties of hard tungsten carbide base alloy with iron-nickel bond. (B23). 465686
- chemical coating**
Investigation into possibility of chemical deposition of coatings with Ni-Fe-Sn alloy. (B12). 493566
- creep**
Creep behavior of Hastelloy X, 2 1/4 Cr-1 Mo steel, and other alloys in simulated HTGR helium. (B22, E33). 486902
Long-time creep-rupture properties and elevated temperature stability of D-979. (B22, E22). 469336
- crystal defects**
Studies of radiation damage by high-energy protons on copper-alloyed iron specimens of different pretreatment by means of small-angle scattering of long-wave neutrons. (A13). 464181
- crystal field**
Hyperfine-field distribution in $\text{Fe}_3\text{Si}/\text{sub } 1-x/\text{Al}/\text{sub } x/$ alloys and a theoretical interpretation. (B22). 481799
- crystal-phase transformations**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
Long-time creep-rupture properties and elevated temperature stability of D-979. (B22, E22). 469336
- crystallization**
Elinvar-type behavior in the alloy $\text{Fe}_{78}\text{Mo}_2\text{B}_{20}$. (B22). 465663
- deformation**
Theory of alloy deformation curves. (B22). 476313
- diffusion**
Atomic diffusion in amorphous Gd-Fe thin films. (B22). 479394
- diffusion coating**
Niobium carbide deposition on the iron and steel surface. (B21). 484147
- domain structure**
Amorphous GdNdFe bubble films with good temperature characteristics. (B22). 490587
- electrical properties**
Zirconium alloys containing transition metal elements. (B21, B22; Patent). 476234
- electronic structure**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- fabrication**
Development and initial characterization of amorphous metals rich in W and/or RE. (B21, B23, B24). 486846
Ductile ordered alloys. (B22, B21, E35). 486894
High resisting alloy without Co used in nuclear industry. (B21). 462830
Zirconium alloys containing transition metal elements. (B21, B22; Patent). 476234
- fermi level**
Connection between kinetic phenomena and atomic ordering processes and electronic structure of $\text{Ni}_3(\text{FeMe})$ -type alloys. (B22). 494043
- ferromagnetism**
Magnetic properties of $\text{Fe}_{\text{sub}}(x)\text{Co}_{\text{sub}}(1-x)\text{Ti}$ and $\text{Fe}_{\text{sub}}(x)\text{Co}_{\text{sub}}(1-x)\text{Si}$ alloys. (B22, A13). 484167
- fracture properties**
Enhancement of mechanical strength in hot-pressed TiB_2 composites by the addition of Fe and Ni. (B23). 462928
- hydridation**
The system iron-titanium - hydrogen: Selected electron- and optical micrographs. (B22). 486925
Techniques for the preparation of the hydrogen storage alloy FeTi for transmission electron microscopy (TEM). (B21, B22). 486853
- hydrogen**
Moment formation upon hydrogen absorption in Hf_2Fe . (B22). 490565
- hydrogen additions**
Magnetic properties of nickel-iron-hydrogen solid solutions. (B22). 465568
- intermetallic compounds**
Magnetic properties of $\text{Fe}_{\text{sub}}(x)\text{Co}_{\text{sub}}(1-x)\text{Ti}$ and $\text{Fe}_{\text{sub}}(x)\text{Co}_{\text{sub}}(1-x)\text{Si}$ alloys. (B22, A13). 484167
Structure and temperature of superconductive transition of the V^3 (Fe, Ge) alloys. (B22). 476346
- interstitials**
Study by Moessbauer spectrometry of the interstitial distribution and evolution in Fe-C and Fe-N solid solutions. (A13). 462188
- lattice parameters**
Elastic energy and metastable phase equilibria for coherent mixtures in cubic systems. (B22). 465675
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
- laves phases**
Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377
- magnetic materials**
Stress in cermet films of $(\text{Fe-Ni})_{\text{sub}}(1-x)(\text{SiO})_{\text{sub}}(x)$ system. (B23). 462929
- magnetic moments**
The magnetic moment of iron in Gd-Fe intermetallic compounds. (A13). 481062
On a possibility of spin reorientation in iron sublattice of quasibinary $\text{Tb}(\text{Fe}_{\text{sub}}(1-x)\text{R}_{\text{sub}}(x))_{\text{sub}}(2)$ compounds. (A13). 492696
- magnetic properties**
Effects of Mo on the magnetic properties of amorphous $(\text{Fe}/\text{sub } x/\text{Mo}/\text{sub } 1-x)/_{75}\text{P}_{15}\text{B}_5\text{Al}_5$. (B22). 479379
Enhancement of the magnetic properties of the $\text{Sm}_2\text{Cu}/\text{sub } 1.6/\text{Zr}/\text{sub } 0.16/\text{Fe}/\text{sub } 3.3/\text{Co}_{11}$ compound. (B22). 479368
Itinerant metamagnetism in rare earth-transition metal compounds. (B22). 479381
Magnetic properties of amorphous alloys of Fe with La, Lu, Y, and Zr. (B22). 465598
Microstructure and magnetism in amorphous rare-earth-transition-metal thin films. II. Magnetic anisotropy. (B22). 479419
Rare earth-cobalt permanent magnets with improved mechanical properties. (B22). 479444
Stress induced anisotropy in amorphous Gd-Fe and Tb-Fe sputtered films. (B22). 479460
Studies of magnetic alloys by diffuse neutron scattering. (A31, A13). 490007
Sublattice magnetization of ErFe_2 -H. (B22, B12). 479440
- magnetization**
Comments on 'Magnetic anisotropy of $\text{RE}_2(\text{Fe},\text{Co})_{17}$ detected by the singular point detection technique. (B22). 460736
Effect of rare earth and transition metal substitution on the anisotropy of R_2Co_{17} compounds (R = Er, Tm, Yb). (B22). 479423
Effect of rare earth and transition metal substitution on the anisotropy of R_2Co_{17} compounds (R = Er, Tm, Yb). (B22). 479423
Hyperfine-field distribution in $\text{Fe}_3\text{Si}/\text{sub } 1-x/\text{Al}/\text{sub } x/$ alloys and a theoretical interpretation. (B22). 481799
Magnetic properties of $\text{Gd}_{\text{sub}}(x)\text{Y}_{\text{sub}}(1-x)\text{Fe}_{\text{sub}}(3)$ type intermetallic compounds. (B22). 460729
- magnetostriction**
Calculation of magnetostriction and equilibrium arrangement of magnetization vector in layers of iron-cobalt alloys. (B22, A13). 484160
Permeability, magnetomechanical coupling and magnetostriction in grain-oriented rare earth-iron alloys. (B22, B21). 460747
- mechanical properties**
Ductile ordered alloys. (B22, B21, E35). 486894
- moessbauer effect**
The contribution of the phononmagnon interaction in the shift. (A13). 477934
High temperature Moessbauer study of ordering in Fe-Al alloys. (A13). [Data] 489039
Hyperfine interactions of ^{57}Fe in $\text{Fe}_{\text{sub}}(1+x)\text{Sb}$. (A13). 474713
Magnetic properties of amorphous alloys of Fe with La, Lu, Y, and Zr. (B22). 465598
- neutron diffraction**
Neutron diffraction study of γ iron titanium deuteride. (A13). [Data] 462249
Studies of magnetic alloys by diffuse neutron scattering. (A31, A13). 490007
- order parameters**
Determination of order parameter and atomic scattering factor in FeAl from thickness fringes in electron micrographs. (A13). [Data] 474847
- order-disorder transformations**
On distribution of iron, nickel and aluminium atoms among sublattice points in ordering ternary alloys. (B22). 484279
- oxidation**
Oxidation of hafnium-iron alloys. (B22, B15). 484273
- permeability**
Permeability, magnetomechanical coupling and magnetostriction in grain-oriented rare earth-iron alloys. (B22, B21). 460747
- phase diagrams**
Metallurgical applications of ion implantation. (B21, B22, B23, A17). 481782
Phase equilibria in the Be-Al-Fe system using high-energy ion beams. II. (B22). 469251
Structure and mechanical properties of iron-vanadium carbide alloys. (B22). 484181
- phase stability**
The effect of small 4th element alloying additions on the calculated phase stability in the Fe-Cr-Ni system. (B22). [Data] 469328
- phase transformations**
Neutron scattering study of premartensitic phases of TiNi(Fe). (B22). 479445
- physical radiation effects**
Damage rates in neutron irradiated FeCo and FeCo₂V ordered and disordered alloys. (B25). [Data] 481906
Effect of electron-irradiation on precipitation in Fe-N alloy. (B25). 472792
Influence of dislocation doping on the recovery of neutron irradiated Fe-Co and Fe-Co-2V ordered alloys. (B25). [Data] 472743
Influence of impurity-defect interactions on radiation hardening and embrittlement. (B25, E22). 479557
Segregation of nickel to voids in an irradiated high-nickel alloy. (B25; Nickel ion irradiation). 469437
- scaling**
Effect of underscale layer on scale-resistance of Fe-Cr-Mn alloys. (B15). 465503
- specific heat**
Neutron scattering study of premartensitic phases of TiNi(Fe). (B22). 479445
- superconductivity**
Magnetic impurities in amorphous superconductors: $T_{\text{sub}}(\text{Kondo}) > T_{\text{sub}}(\text{c})$. (B22). [Data] 490575

- swelling**
The effect of small 4th element alloying additions on the calculated phase stability in the Fe-Cr-Ni system. (B22). 469328
- titanium alloys**
The system iron-titanium - hydrogen: Selected electron- and optical micrographs. (B22). 486925
- young modulus**
Elastic modulus anomaly in iron-manganese alloys with fcc lattices. (B22; As alloying additions the following elements were used Co, C, Si, Ni, Co, Cr). 493970
- IRON BASE ALLOYS:**
See also more specific entries as listed in the INIS Thesaurus.
- binary alloy systems**
Magnetic properties study of some iron and cobalt based alloys. (A13). 485615
- compressibility**
Ultra-acoustic investigation into Fe-Cr melts. (B22). 469203
- crystal growth**
Investigation into crystal growth forms intermediate between cells and dendrites. (B22). 484154
- crystal structure**
Effect of air-cooling heat treatments on the structure and properties of Fe/4Cr/0.3C/2Mn alloy. (B22, B21). 494019
- crystal-phase transformations**
Microscopic mechanism of the martensite transformation in the Fe-Ni system. (B22). 493968
- Pulsed magnetic field effect on the alloys with isothermal and athermic martensite transformations. (B22). 469220
- elasticity**
Modulus of elasticity of the Fe-Ni-Mn-C alloy monocrystals near the martensite $\gamma \rightarrow \alpha$ transformation. (B22). 494025
- Stability of γ -phase of Fe-33.7% Ni alloy near martensite transformation. (B22). 469286
- embrittlement**
The improvement of irradiation-enhanced copper embrittlement in Fe-Cu alloys. (B25). 469460
- fabrication**
Design of duplex low-carbon steels with carbide forming elements. (B21, B22). [Data] 493871
- Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
- fatigue**
On fracture mechanisms of iron and its alloys in various temperature and stress ranges. (B22). 484218
- ferromagnetism**
Magnetic behavior of iron in ternary gadolinium-yttrium compounds. (B22). [Data] 465579
- ferromagnetic materials**
Oxidation and domain structure of condensed iron and iron-cobalt films. (B22). 469166
- fractures**
Regularities of intra-grain fracture of metals with bcc lattice. (B22). 469280
- hydrogen additions**
Hydrogen effect on eutectoid transformation in iron-carbon alloys. (B22). 469287
- Influence of hydrogen pressure upto 23 kbars on temperature of epsilon- γ -transformation in Fe+22% Mn alloy. (B22). 484241
- lattice parameters**
Equilibrium studies on a chi phase-strengthened ferritic alloy. (B22, E22). 469258
- magnetic moments**
Magnetic moment of Cr and Mn atoms in bcc Fe-Co alloys determined by polarized neutron scattering. (A13). [Data] 474812
- magnetic properties**
Effect of long-term hold-ups on the stability of magnetic properties of 80KNhS and 36 KNM alloys. (B22). 493941
- FMR measurement of anisotropy dispersion in amorphous GdFe films. (B22). 479456
- Magnetic properties study of some iron and cobalt based alloys. (A13). 485615
- Moessbauer studies at high pressure. Final report. (B22). 472646
- Ultrasonic studies below $T_{\text{sub } c}$ in amorphous rare earth-iron alloys. (B22). 479401
- magnetic susceptibility**
Anomalous magnetization of amorphous alloys in strong magnetic fields. (B22). 494018
- magnetization**
Magnetic viscosity and anomalies near the Curie point in iron-nickel-chromium alloys. (B22). 476260
- mechanical properties**
Design of duplex low-carbon steels with carbide forming elements. (B21, B22). [Data] 493871
- Development of ductile long-range ordered alloys for fusion reactor systems. (A14, B22). [Data] 464398
- Effect of air-cooling heat treatments on the structure and properties of Fe/4Cr/0.3C/2Mn alloy. (B22, B21). 494019
- microstructure**
Investigation into the structure of Ni-W and Fe-Mo alloys prepared by the electrolysis method at a high rate of cooling. (B22). 479359
- molybdenum alloys**
On the structure of austenite carbide colonies of carburized Femo alloys. (B22). 469128
- muon probes**
Hyperfine fields on the μ in NiCr and FeSi alloys. (A13). 474854
- neutron diffraction**
Studies performed on neutron-irradiated copper-doped iron specimens by means of neutron small-angle scattering. (B25). 472767
- nitrogen additions**
Crystal structure of iron-nickel austenite with high nitrogen content alloyed with nitride forming elements. (B22). 484163
- order parameters**
Ordering and decomposition in Fe-Cr-Co martensite. (B22). 484280
- Short order in ternary interstition-substitution solid. (B22). 484256
- oxidation**
High-temperature oxidation of iron, Fe-0.5 wt. % Al and Fe-1 wt% Al alloys in CO₂ at atmospheric pressure. (B15). 490508
- phase studies**
Electron diffraction study of component redistribution in two-phase iron-nickel films. (B22). 484268
- phase transformations**
Effect of hydrostatic pressure on the phase formation process during plastic deformation of iron-nickel alloys. (B22). 484189
- Structure transformations in precipitation-hardening elinvar Fe-Ni base alloys. (B22; Fe-44.6% Ni-4.9% Cr-2.6% Ti-0.5% Al). 476345
- physical radiation effects**
Effect of the initial stage on aging of the Fe-14.5% Mo alloy under electron radiation conditions. (B25). 465735
- Effects of the initial composition of an Fe-14.5% Mo alloy on its ageing during electron irradiation. (B25). 462948
- Field-ion microscope detection of ultra-fine defects in neutron-irradiated Fe-0.34 pct Cu alloy. (B25, B22, E22). 469410
- Mechanical properties of ferrous alloys after fast neutron-irradiation at high temperature. (B25). 484313
- Void swelling in electron irradiated high purity Fe-Cr-Ni austenitic alloys. (B25). 465724
- radiation hardening**
The improvement of irradiation-enhanced copper embrittlement in Fe-Cu alloys. (B25). 469460
- spark machining**
Effect of polymorphism on iron and iron alloy fracture induced in electrosark machining. (B22; Fe-3.2% Si, Fe-5% Sn, Fe-8% Mo, Fe-10% W). 490578
- tensile properties**
Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
- Mechanical properties of ferrous alloys after fast neutron-irradiation at high temperature. (B25). 484313
- Strength and low temperature toughness of high manganese austenitic Fe-Cr-Ni alloys for cryogenic service. (B22). 481821
- voids**
Void swelling in electron irradiated high purity Fe-Cr-Ni austenitic alloys. (B25). 465724
- IRON BORIDES:**
magneto-optical effects
Magneto-optical investigation of the domain structure of amorphous Fe₈₀B₂₀ alloys. (B22). 462907
- IRON CARBIDES:**
See also CEMENTITE
- IRON CHLORIDES:**
dissolution
Moessbauer effect of FeCl₂ in ZnCl₂ in the superviscous liquid. (A13). 471553
- distribution functions**
Extraction properties of octaethyltetraamidopyrophosphate (OETAPP) Pt. 3. (B12). 484031
- raman spectra**
Resonance Raman spectra of metal halide vapor complexes. (B12). 460514
- solvent extraction**
Extraction properties of octaethyltetraamidopyrophosphate (OETAPP) Pt. 3. (B12). 484031
- IRON COMPLEXES:**
See also FERRICYANIDES; FERRITIN; FERROCYANIDES
- Chelation of di- and trivalent iron with some polyaminopolycarboxylic acids. (B12). [Data] 493607
- absorption spectra**
Dissolution of iron during the initial corrosion of carbon steel in aqueous H₂S solutions. (B15). 460631
- chemical radiation effects**
Ferrocene-containing polymers. I. Radiation-induced polymerization of ferrocenylmethyl methacrylate. (B14; γ radiation). [Data] 479300
- chemical reactions**
Reaction of superoxide radical with iron complexes of E.D.T.A. studied by pulse radiolysis. Progress report, December 1, 1977 - November 30, 1978. (B14). 462782
- dose-response relationships**
Absorption of iron polymaltose and ferrous sulphate in rats and humans. (C55). [Data] 476742
- intestinal absorption**
Absorption of iron polymaltose and ferrous sulphate in rats and humans. (C55). [Data] 476742
- moessbauer effect**
Moessbauer spectroscopic studies of iron(III) and iron(II) complexes with 1,2-bis(diphenylphosphino)ethane. (A13). 474843
- Moessbauer study of some iron(II) complexes with methyl isocyanide, bipyridine and phenanthroline. (B12). 486579
- Study of the thermal behaviour of the (BPHA)_nFe by Moessbauer effect. (A13). 471420
- nitroso compounds**
Radiation synthesis of iron(II) and ruthenium(II) alkylnitroso complexes. (B14). [Data] 468943
- photochemistry**
Photochemical properties of the low-spin iron(II) - 2,3,9,10-tetramethyl-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene complexes. An investigation of the secondary thermal substitution reactions by laser and flash photolysis. (B12, D11). 486595

- radiolysis**
On the radiolytic reduction of tris(1,10-phenanthroline) Fe(III) complex in acid aqueous solution. (B14). [Data] 493810
Radiolysis of non-aqueous solutions of trisacetyl acetate Fe(III). (B14). 462790
- solvent extraction**
Extraction of iron(III) with diphenyl-2-pyridylmethane dissolved in benzene from aqueous chloride solutions. (B12). 462745
- structural chemical analysis**
Interactions of an aliphatic hydrogen atom with a transition metal. The first direct observation of a strong C-H...metal interaction derived from a single crystal neutron diffraction study of $[\text{Fe}(\text{P}(\text{OCH}_3)_3)_3(\text{eta}^2\text{-C}_6\text{H}_{10})][\text{BF}_4]$. (B12). 460460
- structural models**
Structure of the iron-containing core in ferritin by the extended x-ray absorption fine structure technique. (B12). 472431
- temperature dependence**
Study of the thermal behaviour of the $(\text{BPHA})_3\text{Fe}$ by Moessbauer effect. (A13). 471420
- toxicity**
Absorption of iron polymaltose and ferrous sulphate in rats and humans. (C55). [Data] 476742
- IRON COMPOUNDS:**
See also CEMENTITE; HEMATITE; IRON BORIDES; IRON CHLORIDES; IRON HYDRIDES; IRON HYDROXIDES; IRON NITRATES; IRON NITRIDES; IRON OXIDES; IRON SULFATES; IRON SULFIDES; IRON TUNGSTATES; MAGNETITE; PYRITE
- chemical preparation**
Synthesis of cyclopentadienyldicarbonyl(dithiocarbene)iron cations and their reactions with amines. (B12). 486634
- chemical reactions**
Dynamic quenching of $\text{Ru}(\text{bpy})_3^{2+}$ sup */ emission in the potential field of a polyelectrolyte. (B12). 465330
- chemical state**
Synthesis of cyclopentadienyldicarbonyl(dithiocarbene)iron cations and their reactions with amines. (B12). 486634
- characterization**
Characterization of environmental samples by Moessbauer technique. (A34). [Data] 468528
- dissociation**
Investigation into dissociation of iron orthovanadate. (B12). 465422
- hafnium additions**
Magnetic hyperfine fields in the $(\text{Zr sub}(1-x) \text{Hf sub}(x)) \text{Fe}_2$ compounds. (A13). 471461
- hyperfine structure**
Magnetic hyperfine fields in the $(\text{Zr sub}(1-x) \text{Hf sub}(x)) \text{Fe}_2$ compounds. (A13). 471461
- minerals**
A Moessbauer study on alteration of a deep sea basalt. (A34). [Data] 465186
- moessbauer effect**
Crystal-field properties of Fe in brucite $\text{Mg}(\text{OH})_2$. (A13). [Data] 474712
- moessbauer spectroscopy**
Moessbauer spectroscopy of the $\text{Gd}(\text{AlFe})_2$ metallic. (A13). 471425
- moessbauer spectrometers**
Chemical state analysis of iron(III) compounds precipitated homogeneously from solutions containing urea by means of Moessbauer spectrometry and x-ray diffractometry. (B11). 472394
- neutron diffraction**
Neutron diffraction study of γ iron titanium deuteride. (A13). [Data] 462249
- radiolysis**
Electrochemical and optical investigation methods of radiolysis of iron(2) aqueous neutral solutions. (B14). 479313
- radiation effects**
A Moessbauer study of the effects of γ -rays and neutron irradiation on iron oxalates. (A13, B14). 481164
- radiometric analysis**
Method of simultaneous continuous determination of transfer rates of iron and chromium into solution during Fe-Cr alloys dissolution. (B15). 465509
- reduction**
Iron molybdates reduction. (B12). 468870
- solvent extraction**
Experimental and theoretical treatment of liquid-liquid extraction equilibria. (B12). 481665
- stopping power**
On the extension of possibilities of the method for determining stopping powers from backscattering spectra in the case of multicharged ions. (A32; nitrogen ions). 464942
- IRON HYDRIDES:**
lattice parameters
Low temperature magnetic properties of the hydrides and deuterides of $\text{Er}(\text{Fe}/\text{sub } 1-x/\text{Mn}/\text{sub } x)_2$. (B23). 479504
Sublattice magnetization of $\text{ErFe}_2\text{-H}$. (B22, B12). 479440
- magnetic moments**
Moment formation upon hydrogen absorption in Hf_2Fe . (B22). 490565
- magnetic properties**
Low temperature magnetic properties of the hydrides and deuterides of $\text{Er}(\text{Fe}/\text{sub } 1-x/\text{Mn}/\text{sub } x)_2$. (B23). 479504
- magnetization**
Magnetic properties of DyFe_2H_2 from ^{57}Fe , ^{161}Dy Moessbauer effect and magnetization measurements. (B23). 479512
- magnetization**
Sublattice magnetization of $\text{ErFe}_2\text{-H}$. (B22, B12). 479440
- permeability**
Hydrogen in b.c.c. metals. (B23). 460762
- IRON HYDROXIDES:**
moessbauer effect
Chemical state analysis of oxidation products on steel surface by conversion electron Moessbauer spectrometry. (B11). 475912

IRON IONS:

- cosmochemistry**
Permitted Fe II emission in Seyfert 1 galaxies and QSOs. II. The excitation mechanism. (A15). 467912
- electron loss**
Total electron-loss cross sections and absolute charge state yields of 20-MeV Fe ions transmitted through gaseous targets. (A32). 475696
- electron spin resonance**
Electric field effect in EPR and local fields in KTAO_3 . (A13). 474760
- kinetics**
Kinetics of Fe^{2+} oxidation and Fe^{3+} reduction in MgO single crystals. (B23). 479506
- electron-ion collisions**
Excitation of ions of the lithium isoelectronic sequence in the relativistic Coulomb-Born approximation. (A12). 477718
- emission spectra**
Dielectronic satellite spectrum of helium-like iron (Fe XXV). (A14). 477994
- energy levels**
Oscillator strengths for highly ionized atomic systems. (A12; Summaries of research activities at Pennsylvania State Univ.). 492527
- Wavelength table of multiply-charged iron Fe VIII-Fe XXVI. (A12). [Data] 481041**
- energy-level transitions**
Breit-Pauli approximation for highly ionised beryllium-like ions up to Fe XXIII. (A12, A15). [Data] 462114
- The measurement of Fe II and Fe III lifetimes by beam-foil spectroscopy in the vacuum ultraviolet. (A12, A15). [Data] 474575**
- Permitted Fe II emission in Seyfert 1 galaxies and QSOs. II. The excitation mechanism. (A15). 467912**
- The $2s2p(^3P,^3P) \rightarrow 2s(^1S_{\text{sup}}e)$ intercombination in beryllium-like Mg IX, Si XI, Ar XV, Ca XVII and Fe XXIII. (A12, A15). [Data] 462115**
- forbidden transitions**
Density dependence of forbidden transitions within $3s^23p^3d$ of the coronal ion Fe IX. (A15). 483491
- ion-atom collisions**
Electron removal from atomic hydrogen by collisions with fully stripped iron ions. (A12). 488894
- Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754**
- Single-electron-capture cross sections for multiply charged O, Fe, Mo, Ta, W, and Au ions incident on H and H_2 at intermediate velocities. (A12). 464043**
- ion-molecule collisions**
Charge changing cross sections for heavy ions at energies to 8.5 MeV/amu. (A12; Preliminary cross sections, electron pickup and loss, 3.4 to 8.5 MeV/amu). [Data] 477695
- Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754**
- Single-electron-capture cross sections for multiply charged O, Fe, Mo, Ta, W, and Au ions incident on H and H_2 at intermediate velocities. (A12). 464043**
- lifetime**
The measurement of Fe II and Fe III lifetimes by beam-foil spectroscopy in the vacuum ultraviolet. (A12, A15). [Data] 474575
- moessbauer effect**
Effect of thermal vibrations of the covalent-populated 4S shell of a Fe^{2+} ion relative to a nucleus on Moessbauer spectrum parameters. (A13). 464127
- oscillator strengths**
Breit-Pauli approximation for highly ionised beryllium-like ions up to Fe XXIII. (A12, A15). [Data] 462114
- The $2s2p(^3P,^3P) \rightarrow 2s(^1S_{\text{sup}}e)$ intercombination in beryllium-like Mg IX, Si XI, Ar XV, Ca XVII and Fe XXIII. (A12, A15). [Data] 462115**
- photoionization**
Partial photoionization cross sections and radiative recombination rate coefficients for Li-like ions - II. (A12). [Data] 485398
- spectral shift**
Electric field effect in EPR and local fields in KTAO_3 . (A13). 474760
- spin-lattice relaxation**
Spin-lattice relaxation of the iron ion in cubic symmetry in magnesium oxide. (A13). 471433
- x-ray spectra**
Line classifications for Ni XXV and XXVI and new observations of Fe XXIII and XXIV in laser-produced spectra. (A15). 492891
- IRON ISOTOPES:**
See also IRON 52; IRON 53; IRON 54; IRON 55; IRON 56; IRON 57; IRON 58; IRON 59; IRON 60; IRON 62
- copper isotopes**
Neutronic calculations for graphite-thorium assemblies, 14 MeV neutron sources. (A34). [Data] 490197
- nuclear radii**
Nuclear charge radii of the $1f/\text{sub } 7/2/$ shell nuclei from muonic atoms. (A34). [Data] 486484
- nuclear structure**
Investigation of some nuclei in the fp shell region. (A33, A34). 483810
- radioactivation**
Neutronic calculations for graphite-thorium assemblies, 14 MeV neutron sources. (A34). [Data] 490197
- shell models**
Investigation of some nuclei in the fp shell region. (A33, A34). 483810

IRON METEORITES:

- aluminium 26**
²⁶Al in iron meteorites and the constancy of cosmic ray intensity in the past. (A15). 475285
- chemical composition**
 Iodine-129 in thyroids and tellurium isotopes in meteorites by neutron activation analysis. (C21, A15). [Data] 461082
- cosmic radiation**
 Investigations on cosmic-ray-produced nuclides in iron meteorites. 2. (A15). 460143
- electron microscopy**
 Santa Catharina and the origin of cloudy taenite in meteorites. (A15). 475311
- isotope dating**
 I-Xe dating of silicate and troilite from IAB iron meteorites. (B31). [Data] 479633
- Investigations on cosmic-ray-produced nuclides in iron meteorites. 2.** (A15). 460143
- isotope ratio**
 Cosmic-ray-produced ⁵³Mn in thirty-one meteorites. (A15). 460102
- iodine-129 in thyroids and tellurium isotopes in meteorites by neutron activation analysis.** (C21, A15). [Data] 461082
- manganese 53**
 Cosmic-ray-produced ⁵³Mn in thirty-one meteorites. (A15). 460102
- microstructure**
 Santa Catharina and the origin of cloudy taenite in meteorites. (A15). 475311
- trans 104 elements**
 The possibility of superheavy elements in iron meteorites. (A15). 471856

IRON NITRATES:

- distribution functions**
 Extraction properties of octaethyltetraamidopyrophosphate (OETAPP) Pt. 3. (B12). 484031
- solvent extraction**
 Extraction properties of octaethyltetraamidopyrophosphate (OETAPP) Pt. 3. (B12). 484031

IRON NITRIDES:

- physical radiation effects**
 Effect of electron-irradiation on precipitation in Fe-N alloy. (B25). 472792

IRON ORES:

- See also HEMATITE; MAGNETITE*
- gamma-gamma logging**
 Effect of ore humidity changes on the selective gamma-gamma logs. (B31). 490764
- isotope ratio**
 Uranium and thorium series nuclides in oriented ferromanganese nodules: growth rates, turnover times and nuclide behavior. (B31). 460855

IRON OXIDES:

- See also HEMATITE; MAGNETITE*
- Electronic properties of metals, alloys and molecules. Final report.** (B22, B23, A17). 465667
- activation analysis**
 Determination of the natural abundance of iron-58 by neutron activation analysis. (B11; Neutron reactions). [Data] 472382
- chemical bonds**
 Bonding of metal oxides in sodium silicate glass. (E50, B12). 461907
- corrosion products**
 Corrosion products phase composition determination of structural materials of primary circuit of RBMK-1000 with neutral aqueous regime by means of nuclear gamma resonance spectroscopy. (B15). 493836
- Investigation into corrosion products formation in the main technological APS systems with RBMK-1000 during operation.** (B15). 493841
- emanation thermal analysis**
 The use of emanation thermal analysis for the evaluation of Fe₂O₃ reactivity. (B12). [Data] 462689
- exchange interactions**
 Super transfer in doped LaFeO₃. (A13). 467370
- lattice parameters**
 Structure of PWR primary corrosion products. (E32, B15, B23). 480650
- magnetic properties**
 Influence of La³⁺ and Lu³⁺ ions on phase transitions in dysprosium orthoferrite. (B12). 493580
- magnetism**
 The puzzle of magnetism in Fe₂TiO₅. (A13). 464165
- magnetostriction**
 Metamagnetic phase transitions and instability of magnetic structure in rare earth orthoferrites. (B12). 493565
- moessbauer effect**
 Chemical state analysis of oxidation products on steel surface by conversion electron Moessbauer spectrometry. (B11). 475912
- Super transfer in doped LaFeO₃.** (A13). 467370
- neutron activation analysis**
 Recent results of the application of nuclear methods in iron metallurgy. (D22). 476871
- particles**
 Magnetic structure of β-FeOOH ultrasmall particles. (A13). 464223
- phase diagrams**
 System of Na₂O-Fe₂O₃-V₂O₅. (B12). 476078

IRON SULFATES:

- chemical dosimeters**
 Moessbauer effect used in Fricke dosimetry. (E41). 492112

moessbauer effect

- Kinetic study by Moessbauer effect of the rehydration of products derived from Mohr salt. (A13). 471579
- radiolysis**
 Radiation chemistry of the ferrous sulfate-benzoic acid-xylene orange system. (B14; γ rays). 468948
- Radiation reduction of iron(3) ions in the Fe₂(SO₄)₃-NaH₂PO₄-H₂O system. (B14).** 479194
- salts**
 Kinetic study by Moessbauer effect of the rehydration of products derived from Mohr salt. (A13). 471579

IRON SULFIDES:

- See also PYRITE*
- chemical preparation**
 Production of some inorganic forms of ³⁵S at the Boris Kidric Institute. (B13). 486723
- cubic lattices**
 Crystallographic and Moessbauer study of zinc blende type FeS. (A13). 471588
- isotope dating**
 Age measurements of potassium-bearing sulfide minerals by the ⁴⁰Ar/³⁹Ar technique. (B31). 460838
- solubility**
 Dissolution of iron during the initial corrosion of carbon steel in aqueous H₂S solutions. (B15). 460631

IRON TUNGSTATES:

- chemical reactions**
 Interaction of iron tungstate with molten tetrafluoroborate and fluoride of potassium. (B12). 478988

IRON 52:

- beta-plus decay**
 Yrast states in ⁵²Fe, ⁵²Mn and the decay of ⁵²Fe/sup m/. (A34). 486382
- contamination**
 Radionuclide purity and dosimetry related to the medical use of the radionuclides Fe-52, Tc-99m and I-123. (C61, C55, B13). 494497
- isotope production**
 BLIP production of Fe-52 and the Mn-52m generator. (D13). 480287
- radiation doses**
 Radionuclide purity and dosimetry related to the medical use of the radionuclides Fe-52, Tc-99m and I-123. (C61, C55, B13). 494497
- yrast states**
 Yrast states in ⁵²Fe, ⁵²Mn and the decay of ⁵²Fe/sup m/. (A34). 486382

IRON 53:

- excited states**
 Strongly deformed Ksup(π)=1/2- bands in ⁵¹Cr and ⁵³Fe. (A34). 465158

IRON 54:

- energy levels**
 Scattering of MeV neutrons from elemental iron. (A34; Angular distribution, cross sections, 1.5 to 4.0 MeV). [Data] 486457
- lifetime**
 Mean lifetime of the 6.38 MeV 8+ state in ⁵⁴Fe. (A34). [Data] 493416
- resonance neutrons**
 Comments about resonance parameters of Fe below 650 keV: old evaluations, and recent experimental data. (A31). 468232

IRON 54 TARGET:

- alpha reactions**
 50.5 MeV alpha particle scattering on sup(54,56)Fe nuclei. (A34). 493381
- deuteron reactions**
 Nuclear lifetimes in manganese-52. (A34; U.8 and 5.0 MeV, cross sections, reduced transition probabilities). 468468
- The optical model for elastic scattering of 10 to 15 MeV polarized deuterons from medium-weight nuclei. (A34).** 468490
- helium 3 reactions**
 Evaporation spectra in the reaction ⁵⁴Fe(³He,pn)⁵⁵Co. (A34). 486431
- Gamow-Teller strength distribution from ⁵⁴Fe(³He, t)⁵⁴Co. (A34).** 490163
- Spectroscopic study of the N=27 nuclei by means of the (tau,α) reaction. (A34).** 481555
- lithium 6 reactions**
 Elastic and inelastic scattering of ⁶Li and ⁷Li by ⁵⁴Fe at E=36-50 MeV. (A34). 483892
- Fusion and nonfusion processes in reactions induced by 10-100-MeV ⁶Li ions with Fe targets. (A34).** 475818
- lithium 7 reactions**
 Elastic and inelastic scattering of ⁶Li and ⁷Li by ⁵⁴Fe at E=36-50 MeV. (A34). 483892
- neutron reactions**
 The analysis of the Co⁵⁹(n,p)Fe⁵⁹ and Fe⁵⁴(n,α)Cr⁵¹ cross sections for their use in reactor dosimetry. (A34, E21). [Data] 483936
- Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34).** 486389
- Neutron transmission and capture measurements of separated Fe isotopes. (E35, A31). [Data]** 494984
- Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data]** 486423
- Resonance and background interference in ⁵⁴Fe neutron capture. (E35, A31). [Data]** 494976
- oxygen 16 reactions**
 Differences in ¹⁶O and ¹⁸O induced inelastic scattering. (A34). 486444
- High resolution study of the reactions ⁵⁴56 ⁵⁸Fe(¹⁶O, ¹²C)⁵⁸60 ⁶²Ni and a comparison with (⁶Li, d) α-transfer spectroscopy. (A34).** 483882

- oxygen 18 reactions** 483882
Differences in ^{18}O and ^{18}O induced inelastic scattering. (A34). 486444
- photonuclear reactions** 490215
Photoneutron cross section of ^{54}Fe . (A34). 490215
- proton reactions** 483924
The (p,t) reaction on ^{12}C , ^{54}Fe and ^{208}Pb at 80 MeV. (A34). 483924
Analysis of data on the sections of elastic scattering through compound nucleus and (p,p') reactions on the sup(50,52)Cr, sup(54,56)Fe, sup(58,60,62)Ni according to the Tepel-Weidenmuller model. (A33). 493285
Probability of the spin flip in proton inelastic scattering by the sup(54,56)Fe isotopes. (A34). 493443
Resonances in the proton inelastic scattering on ^{54}Fe in the 6 MeV range. (A34). 493337
- silicon 28 reactions** 490139
Evidence for a positive parity decoupled band in ^{79}Rb . (A34). 490139
- IRON 55:**
- electron capture decay** 483896
Double internal bremsstrahlung in the electron-capture decay of ^{55}Fe . (A34). 483896
- internal bremsstrahlung** 483896
Double internal bremsstrahlung in the electron-capture decay of ^{55}Fe . (A34). 483896
- nilsson-mottelson model** 478638
Possible evidence for deformed $7/2^-$ states in $N=29$ nuclei. (A33). 478638
- nuclear reaction yield** 486423
Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). 486423
- radiometric gages** 470263
Particle size determination by use of ^{55}Fe X-ray absorption. (D22). 470263
- scintillation counting** 486525
Blood sample $^{59}\text{Fe}/^{55}\text{Fe}$ activity ratio measurement using a semiconductor detector. (B11, E41). [Data] 486525
- IRON 56:**
- energy levels** 468473
Low-energy pion scattering. (A34; 50 MeV, differential cross sections). 468473
Scattering of MeV neutrons from elemental iron. (A34; Angular distribution, cross sections, 1.5 to 4.0 MeV). [Data] 468457
- excited states** 481538
The low excitation spectroscopy of ^{56}Fe , ^{57}Fe , ^{58}Fe . (A34). 481538
- level widths** 490200
Transmission of neutrons through iron-56 at 24.37 keV. (A34). [Data] 490200
- nuclear structure** 493181
"Model-free" information on nuclear structure from electron inelastic scattering. (A33). 493181
- resonance neutrons** 468232
Comments about resonance parameters of Fe below 650 keV: old evaluations, and recent experimental data. (A31). 468232
- vibrational states** 465166
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- IRON 56 REACTIONS:**
- fission** 478784
Fragmentation of relativistic ^{56}Fe . (A34). 478784
- heavy ion fusion reactions** 475813
Neutron emission from the strongly damped reaction $^{156}\text{Ho} + ^{56}\text{Fe}$ at 8.5 MeV. (A34; Angular distribution). [Data] 475813
- relativistic range** 475813
Neutron emission from the strongly damped reaction $^{156}\text{Ho} + ^{56}\text{Fe}$ at 8.5 MeV. (A34; Angular distribution). [Data] 475813
- Properties of participants and spectators in non-peripheral Fe-induced reactions at 1.7 A GeV. (A34). 483838
- IRON 56 TARGET:**
- alpha reactions** 478690
The $^{56}\text{Fe}(\alpha,\gamma)^{60}\text{Ni}$ reaction cross section. (A34). 478690
50.5 MeV alpha particle scattering on sup(54,56)Fe nuclei. (A34). 493381
- lithium 6 reactions** 475818
Fusion and nonfusion processes in reactions induced by 10-100-MeV ^6Li ions with Fe targets. (A34). 475818
- neutron reactions** 486197
Charged-particle emission in reactions of 15-MeV neutrons with isotopes of chromium, iron, nickel, and copper. (A34). 486389
Investigations of gamma spectra and gamma-ray production cross sections from the reactions $^{56}\text{Fe}+n$ and $^{93}\text{Nb}+n$ by the Hauser-Feshbach theory. (A33). [Data] 486197
Investigations on the reaction mechanism of inelastic scattering at 3.4 MeV neutron incident energy. (A34). [Data] 481596
A method to measure average neutron activation cross-sections by neutron sources. (E41). 470940
Neutron transmission and capture measurements of separated Fe isotopes. (E35, A31). [Data] 494984
Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data] 486423
Recent results for ^{58}Ni and ^{56}Fe at ORELA. (E35, A31). [Data] 495016
Transmission of neutrons through iron-56 at 24.37 keV. (A34). [Data] 490200
- oxygen 16 reactions** 482176
High resolution study of the reactions $^{54,56}\text{Fe}(^{16}\text{O}, ^{12}\text{C})^{58,60,62}\text{Ni}$ and a comparison with (^6Li , d) α -transfer spectroscopy. (A34). 482176
- proton reactions** 493299
Analysis of data on the sections of elastic scattering through compound nucleus and (p,p') reactions on the sup(50,52)Cr, sup(54,56)Fe, sup(58,60,62)Ni according to the Tepel-Weidenmuller model. (A33). 493285
Analysis of proton scattering on sup(56,58)Fe using a simple collective model. (A33). 493299
Gamma decay of gatsub 9/2a1 isobaric analog resonance in ^{57}Co . (A34). 486448
Gamma-ray production cross sections. (A34; 5 to 15 MeV). [Data] 486344
Probability of the spin flip in proton inelastic scattering by the sup(54,56)Fe isotopes. (A34). 493443
Thick target yields and analytical sensitivities for reactions induced with 12-MeV-protons on Ti, Fe, Zn, Ge, Zr, Nb, Pd, Ta, and W. (A34, B11). [Data] 481575
- radioactivation** 470940
A method to measure average neutron activation cross-sections by neutron sources. (E41). 470940
- spallation** 472190
A modified mass-yield formula for intermediate-energy photospallation of medium-weight nuclei. (A33). 472190
Photodisintegration of light and medium-weight nuclei at intermediate energies-III spallation of vanadium, manganese, iron and cobalt. (A33). 472189
- IRON 57:**
- aluminium** 489051
Moessbauer spectroscopy of ^{57}Fe implanted into aluminium using isotope separator. (A13). [Data] 489051
- charge density** 483277
Internal conversion study on the contact charge density of ^{57}Fe impurity atoms in Au metal. (A13, B22). 483277
- excited states** 481538
The low excitation spectroscopy of ^{56}Fe , ^{57}Fe , ^{58}Fe . (A34). 481538
- hot atom chemistry** 472493
Studies of the yields of $^{57}\text{Fe}(\text{II})$ -species produced after the EC-decay and of $^{60}\text{Co}(\text{II})$ -species produced in the (n, γ) reaction in cobalt(III) coordination compounds. (B13). 472493
- internal conversion** 483277
Internal conversion study on the contact charge density of ^{57}Fe impurity atoms in Au metal. (A13, B22). 483277
- moessbauer effect** 471588
Crystallographic and Moessbauer study of zinc blende type FeS. (A13). 471588
Moessbauer studies at high pressure. Final report. (B22). 472646
Observation of Moessbauer spectra of ^{57}Fe in V_3Si . (A13). 464182
- resonance neutrons** 468232
Comments about resonance parameters of Fe below 650 keV: old evaluations, and recent experimental data. (A31). 468232
- IRON 57 TARGET:**
- carbon 12 reactions** 468585
High spin states in ^{67}Ga . (A34). 468585
- neutron reactions** 494975
Neutron capture cross section of ^{57}Fe . (E35, A31). [Data] 494975
- IRON 58:**
- activation analysis** 472382
Determination of the natural abundance of iron-58 by neutron activation analysis. (B11; Neutron reactions). [Data] 472382
- excited states** 481538
The low excitation spectroscopy of ^{56}Fe , ^{57}Fe , ^{58}Fe . (A34). 481538
- IRON 58 TARGET:**
- neutron reactions** 495008
Capture and total cross section measurements on ^{58}Fe below ^{133}keV . (E35, A15). [Data] 495008
- oxygen 16 reactions** 483882
High resolution study of the reactions $^{54,56}\text{Fe}(^{16}\text{O}, ^{12}\text{C})^{58,60,62}\text{Ni}$ and a comparison with (^6Li , d) α -transfer spectroscopy. (A34). 483882
- proton reactions** 493299
Analysis of proton scattering on sup(56,58)Fe using a simple collective model. (A33). 493299
- IRON 59:**
- intestinal absorption** 494361
The fate of ^{59}Fe -labelled caecal microorganisms during intestinal mucosa absorption. Autoradiographic study in rabbit. (C31). 494361
- metabolism** 482423
Nuclear hematology. (C62). 482423
- nuclear reaction yield** 486423
Production of iron nuclides in thermal, fission, and 14.1-MeV neutron sources. (A34; Cross sections, production rate ratios). [Data] 486423
- radionuclide kinetics** 469794
Distribution of ^{59}Fe in benzene and iomex treated rats. (C21). 469794
- The influence of ACTH, TSH and STH on ^{59}Fe incorporation in red blood cells and on serum iron level in rats. (C21). [Data] 484581
- scintillation counting** 486525
Blood sample $^{59}\text{Fe}/^{55}\text{Fe}$ activity ratio measurement using a semiconductor detector. (B11, E41). [Data] 486525
- scintiscanning** 491317
Exploration of erythropoiesis sites. (C62). 491317
- swine** 487328
Iron resorption and iron stores in piglets after intramuscular injection of ^{59}Fe -iron dextran. (C42, C21). 487328
- tracer techniques** 482176
Basic study on hematopoiesis-activating function of androgen. (C45). 482176

- Experimental and theoretical treatment of liquid-liquid extraction equilibria. (B12). 481665
 Hematopoiesis-activating effects of androgen (fluoxymesterone). (C45). 473181
- IRON 60:**
 mass
 The mass of the neutron-rich nuclei ^{60}Fe , ^{62}Fe , ^{74}Zn and of the new isotope ^{60}Ni . (A34). [Data] 468496
- IRON 62:**
 mass
 The mass of the neutron-rich nuclei ^{60}Fe , ^{62}Fe , ^{74}Zn and of the new isotope ^{60}Ni . (A34). [Data] 468496
- nuclear properties**
 Nuclear data sheets for A=62. (A34). [Data] 465145
- IRON-ALPHA:**
 deformation
 In situ deformation of b.c.c. crystals at low temperatures in a high-voltage electron microscope. Dislocation mechanisms and strain-rate equation. (B22). 481827
- hydrogen**
 Determination of hydrogen solubility in α -iron. (B22). 494037
- interstitials**
 Interstitial migration in iron at 220 K. (A13). [Data] 474735
- muon probes**
 Diffusion of positive muons in α -iron crystals. (A13). 474855
- physical radiation effects**
 Annealing of vacancies in electron-irradiated α -iron. (B25). [Data] 462945
- IRPA:**
 (International Radiation Protection Association)
 reviews
 Health Physics Society: origins and development. (C52). 461233
- IRRADIATED FUEL ELEMENTS:**
 See *SPENT FUEL ELEMENTS*
- IRRADIATED FUELS:**
 See *SPENT FUELS*
- IRRADIATION:**
 See also *ACUTE IRRADIATION; CHRONIC IRRADIATION; EXTERNAL IRRADIATION; EXTRACORPOREAL IRRADIATION; FRACTIONATED IRRADIATION; INTERNAL IRRADIATION; LETHAL IRRADIATION; LOCAL IRRADIATION; LOW DOSE IRRADIATION; NONUNIFORM IRRADIATION; PARTIAL BODY IRRADIATION; PERINATAL IRRADIATION; PRENATAL IRRADIATION; PULSED IRRADIATION; RADAPPERTIZATION; RADICIDATION; RADURIZATION; WHOLE-BODY IRRADIATION*
- accuracy**
 Determination of material irradiation parameters. Required accuracies and available methods. (E17). 477092
- biological indicators**
 D-values of *Bacillus pumilus* spores on irradiated devices (inoculated product). (C12; Gamma radiation). 469619
- cellulose**
 Gamma irradiation of cellulose and some problems of its utilization. (B14). 472509
- cost benefit analysis**
 On the economic efficiency of the industrial use of isotopes. (F13). 482938
- dentistry**
 Dental care for the irradiated patient. (C15, C63). 482063
- dose-response relationships**
 Testicular function following irradiation of the human prepubertal testis. (C15). 463213
- efficiency**
 Ozonation of make-up water for salmonid fish rearing facilities. Completion report. (C42). 461141
- fishes**
 Progress in food irradiation: Turkey. (C43, C55). 482155
 Some conclusions of studies on irradiation of whole fish aboard fishing vessels. (C43). 476645
- food**
 Cod/redfish studies now complete; mango studies near completion. (C43). 482136
 Progress in food irradiation: Germany. (C43, C12). 482147
 Progress in food irradiation: South Africa. (C43). 482156
 Progress in food irradiation: Poland. (C43, C55). 482141
 Progress in food irradiation: Bangladesh. (C55, C43). 482260
- fruits**
 Quality testing of irradiated South African fruits in F.R. Germany. (C43). 482139
- grain disinfection**
 Radiation technology for grain disinfection. (C43). 473151
- microorganisms**
 Quantitative and qualitative study of natural bacterial microflora of bandages to be sterilized by radiation. (C45). 473164
- milk products**
 Progress in food irradiation: Turkey. (C43, C55). 482155
- packaging**
 Irradiation device for the uniform irradiation of objects by electromagnetic radiation of more than 5 keV. (C45, D14). 473184
- surgical materials**
 Quantitative and qualitative study of natural bacterial microflora of bandages to be sterilized by radiation. (C45). 473164
- uses**
 Gamma irradiation of cellulose and some problems of its utilization. (B14). 472509
- yeasts**
 The inactivation of cells by accelerated heavy ions of very high LET. (C11, C55). 461000
- IRRADIATION CAPSULES:**
 in pile loops
 Some problems in carrying out the capsule tests in the MIR reactor. (E17, B22). 470460
- isotope production**
 Capsules used for radioisotopes production. (E15). 482597
- performance**
 Radiation research of materials using irradiation capsules. (E37). 485012
- temperature control**
 Innovations on the workplace of the irradiation experiments group. (F61). 482966
- very low temperature**
 VINKA, ten years on. Main scientific results. (E17; solids irradiation at very low temperatures). 491694
- IRRADIATION CHANNELS:**
 See *EXPERIMENTAL CHANNELS*
- IRRADIATION DEVICES:**
 D-values of *Bacillus pumilus* spores on irradiated devices (inoculated product). (C12; Gamma radiation). 469619
 Laboratory and industrial radionuclide sources of ionizing radiation. (D14). 480295
 Progress in developing a fully portable blood irradiator. (E41). [Data] 474089
- californium 252**
 Development of methods for determining selected elements using a radioisotope or a ^{252}Cf neutron source. (B11). 478859
- cesium 137**
 A self-shielded gamma-ray unit for radiobiological studies IGUR-I. (C54). 466357
- control equipment**
 Shutter mechanism for radiation-curing. (D23). 491435
- cryostats**
 A simple continuous flow cryostat for low temperature experiments in pile. (E36). 477309
 A simple continuous flow cryostat for low temperature experiments in pile. (E36). 477308
- fuel elements**
 A device of irradiation and measurement of fuel elements for nuclear reactors. (E15). 463549
- graft polymers**
 Device for grafting high-polymer articles preirradiated with ionizing beams. (D23). 461485
- internal irradiation**
 The Cathetron in practical use: physical, radiobiological and clinical aspects. (C64). 473533
- isodose curves**
 Restoration of parameters of irradiation program according to assigned dose field. (C63). 482482
- medical supplies**
 Irradiation device for the uniform irradiation of objects by electromagnetic radiation of more than 5 keV. (C45, D14). 473184
- radiation dose distributions**
 Monitoring the radiation field of the source IGUR-I. (D15). 466458
- radiation quality**
 The high pressure xenon lamp as a source of radiation. (E42). 485140
- radiotherapy**
 Progress and prospects of developing therapeutic radiation techniques. (C64, D14). 482495
 Temperature distribution in the radiation head of gamma therapeutic instrument. (D14). 466453
- safety**
 American national standard N433.1; safe design and use of self-contained, dry source storage gamma irradiators (Category I). Final report. (D14). 480291
- sample holders**
 A fluence device for precise radiation dosimetry. (E41). 480745
- specifications**
 American national standard N433.1; safe design and use of self-contained, dry source storage gamma irradiators (Category I). Final report. (D14). 480291
 Standards and general criteria for the planning and certification of need of megavoltage radiation oncology units in health care facilities. (C63, D14; New Jersey). 473516
- IRRADIATION PLANTS:**
 inert atmosphere
 Apparatus for irradiation of a moving product in an inert atmosphere. (D23). 461488
- licensing**
 Licensing and environmental assessment requirements for a sludge irradiation program. (D23, E15). 480324
 Licensing and regulatory considerations for cesium-137 irradiators. (D23). 480323
- neutron dosimetry**
 Development and testing of neutron dosimetry techniques for accelerator-based irradiation facilities. (E13, E16). 461512
- pilot plants**
 Pilot plant study. (D23). 480329
- radiation accidents**
 Another ^{60}Co hot cell accident. (C51). 487392
- specifications**
 Generic demonstration plant study (A/E package). (D23). 480328
 Irradiation plant in the Central Bohemian Museum. (D23). 494682
 Pilot plant study. (D23, E13; For radiation processing of dry sewage sludge). 461487
- IRRADIATION PROCEDURES:**
 comparative evaluations
 Absorbed bone marrow dose in certain dental radiographic techniques. (C15, C61). 473031

- Derivation of cellular survival kinetic parameters for experimental fractionated irradiation of rat skin. (C14; X rays). 461033
 Effect of x irradiation on survival of rabbits with staphylococcal B enterotoxemia. (C14). 461048
- High dose preoperative irradiation of the lower neck and supraclavicular fossae. (C15, C63; Comparison of effectiveness of different irradiation fields and complications of therapy). 473023
 Preliminary report of the M.D. Anderson Hospital/Texas A and M variable energy cyclotron fast-neutron therapy pilot study. (C15, C63; Comparison of effectiveness and complication rate for various irradiation techniques, tumor sites, and photon/neutron combinations). 473021
 Tumorigenic hazard of particulate α activity in Syrian hamster lungs. (C21; Comparison of intratracheal ^{210}Po solutions with intravenous ^{147}Pm - and ^{238}Pu -microspheres). 476603
- dosimetry**
 Clinico-dosimetric analysis of irradiation technique for hypophysis neoplasms. (C55, C63). 494485
- planning**
 Computer-controlled radiation therapy. (C15; Use of PDP 11/45 minicomputer in planning irradiation procedures involving transit of sensitive normal tissues). 469705
- productivity**
 Fundamentals of radiation technology. (D23). 480333
- radiosensitivity**
 Complications of combined surgery and neutron radiation therapy in patients with advanced carcinoma of the head and neck. (C15, C63). 487252
 Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019
 Cranial irradiation in children with lymphoblastic acute leukemia: results and damages. (C15, C63; Incidence of asthenia, anorexia, somnolence, and lethargy as related to irradiation procedure). 472996
 Late radiation damage to pig skin. The effects of overall treatment time and number of fractions. (C14; Effects of number of fraction on severity of late x-ray effects). 494298
 Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction. (C14, C63, C15). 487212
- reactors**
 Radiation chemistry experiments in a nuclear reactor. (E37). 480740
- IRRADIATION REACTORS:**
 See also more specific entries as listed in the *INIS Thesaurus*.
- IRRADIATION RIGS:**
 See *IRRADIATION CAPSULES*
- IRREDUCIBLE REPRESENTATIONS:**
 General Flodmark-Blokker method for irreducible representatives. (F51). 485240
- computer codes**
 Shift operators for the classical groups. (F51). 485230
- variational methods**
 Time-dependent variational principle and the effective action. (A11). 483052
- IRREVERSIBLE PROCESSES:**
lectures
 Path-integral methods in nonequilibrium thermodynamics and statistics. (A11). 492425
 Synergetics - a field beyond irreversible thermodynamics. (A11). 492431
- ISABELLE:**
 See *ISABELLE STORAGE RINGS*
- ISABELLE STORAGE RINGS:**
 Comments on two o'clock experimental area (small-angle hall). (E16). 494730
 Feasibility of studying large p/sub perpendicular to/ in ISABELLE's wide-angle hall. (E16). 494731
 Feasibility study of experiments to measure inclusive reactions at large x/sub F/ in ISABELLE's small-angle hall. (E16). 494732
 Mass resolution for lepton pairs at ISABELLE. (E16). 494735
- accelerator facilities**
 Comments on the design of the four o'clock (and twelve o'clock) experimental areas. (E16). 494729
 Data handling for the lepton detector. (E41, E16). 474053
 Experimental areas: summary of activity. (E16). 494839
 Experimental areas: summary of activity. (E16). 480495
 Feasibility study of experiments to measure inclusive reactions at large x/sub F/ in ISABELLE's small-angle hall. (E16). 466519
 ISABELLE. (E16). 491689
 Open areas and open access. (E16). 494866
 Open areas and open access. (E16). 466560
 Proposed revision to the design for the 6 o'clock experimental area. (E16). 494744
 PWCs and drift chambers at ISABELLE. (E41, E16). 474109
 Simple, inexpensive dipole spectrometer for ISABELLE. (E41, E16). 466825
- background radiation**
 Shielding in experimental areas. (E16). 494858
- beam bending magnets**
 Choice of steel for the ISABELLE magnet tubes. (E16). 494761
- beam bunching**
 High frequency bunches for proton-proton storage accelerators. (E16). 476997
- beam dumps**
 Beam dumping at ISABELLE. (E16). 477037
 Experimental use of neutrinos from ISABELLE beam dumps. (E16). 494742
- beam dynamics**
 Correction of the coupling resonance in intersecting storage accelerators. (E16). 477049
 Correction of the closed orbit and vertical dispersion and the tuning and field correction system in ISABELLE. (E16). 480491
 Problems of operating ISABELLE at largely asymmetric energies. (E16). 494818
 Simple computer model for the nonlinear beam-beam interaction in ISABELLE. (E16). 466537
 Transverse resistive wall instability of an off-axis ribbon beam in a circular chamber. (E16). 480445
- beam extraction**
 Beam dumping at ISABELLE. (E16). 494819
 Efficient extraction of the ISABELLE high energy beam by rebunching. (E16). 494817
- beam focusing magnets**
 ISABELLE insertion quadrupoles. (E16). 477005
- beam injection**
 Beam transfer from the AGS to ISABELLE. (E16). 480524
- beam stacking**
 Enhanced resistive wall instability for off-centered beams. (E16). 476981
 Transverse resistive wall instability of an off-axis ribbon beam in a circular chamber. (E16). 480445
- beam transport**
 Average neutralization and transverse stability in ISABELLE. (E16). 487909
- calorimeters**
 Proportional wire calorimeters at ISABELLE. (E16, E41). 494814
 Some comments on forward calorimeters. (E16, E41). 494853
 Uranium-scintillator device. (E16, E41). 494854
- channeling**
 Channeling revisited. (E16, A32). 494796
- cherenkov counters**
 Appendix D-I: comparison of techniques as applied to specific experiments. (E16). 494727
 Cerenkov counters at ISABELLE. (E16, E41). 494733
 Cerenkov counters at ISABELLE. (E16, E41). 476959
- colliding beams**
 Transfer map approach to the beam-beam interaction. (E16). 491593
- construction**
 ISABELLE. (E16). 470423
- data acquisition systems**
 Data handling for the lepton detector. (E16). 494760
 Data handling for small-angle experiments. (E16). 494779
 Hardware architecture for processing detector data in real time. (E42). 495151
 Notes on the fast bus system. (E16). 494808
 Panel on the impact of changing computer technology on nuclear and particle physics. (E41, E42, E16). 492151
 Report of the subgroup on fast processing. (E16, E41). 494780
 Summary of data-handling subgroup. (E16). 494883
- data transmission**
 Notes on the fast bus system. (E16). 494808
- dipoles**
 Report of the dipole facility subcommittee. (E16). 494825
- drift chambers**
 Ambiguities in drift chambers due to high event rates. (E16, E41). 494795
- hodoscopes**
 Detection system using scintillating optical fibers and image tube readout. (E16, E41). 494723
- magnetic fields**
 Magnetic field measurements on ISABELLE storage ring magnets. (E16). 476969
- magnetic spectrometers**
 Solenoid spectrometer magnets. (E16). 494737
- magnets**
 General features of some possible large spectrometer magnets for use at ISABELLE. (E16). 494863
- maintenance**
 Crafty cranes, or the feasibility of robots at ISABELLE. (E16). 476977
- memory devices**
 Large mass storage facility. (E16). 494833
- multiwire proportional chamber**
 PWCs and drift chambers at ISABELLE. (E16, E41). 494822
- neutrino beams**
 Experimental use of neutrinos from ISABELLE beam dumps. (E16). 466523
- particle identification**
 Cerenkov counters at ISABELLE. (E16, E41). 476959
- proton beams**
 Experimental use of neutrinos from ISABELLE beam dumps. (E16). 466523
- radiation detectors**
 Applications of superconducting technology to ISABELLE detectors. (E16). 494722
 Central detector for jets and W's (JAWS). (E16). 494793
 Conceptual design of a solenoidal magnet detector. (E16). 494802
 Data handling for the lepton detector. (E16). 494760
 Detector development summary. (E16). 494836
 General features of some possible large spectrometer magnets for use at ISABELLE. (E16). 494863
 Measurement of diffractive dissociation at ISABELLE. (E16). 494884
 New ideas for calorimetry. (E16, E41). 494769
 Solenoid spectrometer magnets. (E16, E41). 494736
 Toroidal magnets. (E16). 494838

- remote handling equipment**
 Crafty cranes, or the feasibility of robots at ISABELLE. (E16). 494753
- research programs**
 Two superconducting storage rings: ISABELLE. (E16). 470411
scintillator-photodiode detect
 Avalanche photodiodes for ISABELLE detectors. (E16, E41). 494859
secondary emission detectors
 Particle detection by secondary electron emission from low-density KCl. (E16, E41). 494762
- specifications**
 ISABELLE. (E16). 470404
 ISABELLE. (E16). 470423
 Status of ISABELLE lattice. (E16). 480437
- spectrometers**
 Data handling for the wide-angle hall jet experiment. (E16). 494754
 Data handling for the axial-field spectrometer. (E16). 494738
 Data handling for small-angle experiments. (E16). 494779
 Data handling in the large-aperture dipole spectrometer. (E16). 494847
 Simple, inexpensive dipole spectrometer for ISABELLE. (E16). 494851
 Spectrometer jet acceptance. (E16). 494797
- streamer spark chambers**
 Use of streamer chambers at ISABELLE. (E16). 494798
- superconducting magnets**
 BNL superconducting storage ring magnet update. (E16, E12). [Data] 466549
 Design, construction, and operation update of the ISABELLE ring magnets. (E16). 480482
 ISABELLE magnet support and adjustment system. (E16). 476974
 Magnet power supply for ISABELLE. (E16, E13). 477040
 Trace impurity analyzer. (E16, E12). 477060
- trigger circuits**
 Triggering at ISABELLE: the first 200 nanoseconds. (E16). 494720
 Triggering at Isabelle: the first 200 nanoseconds. (E16). 476944
- tuning**
 Correction of the closed orbit and vertical dispersion and the tuning and field correction system in ISABELLE. (E16). 480491
- vacuum systems**
 Day-one experimental straight sections. (E16). 494787
 Factors determining the choice of the beam tube material and the vacuum chamber design for a superconducting high energy storage accelerator. (E16). 476949
 Performance of vacuum components operating at 1×10^{-11} Torr. (E16). 476994
 Performance of vacuum components operating at 1×10^{-11} torr. (E16). 470385
- ISAR REACTOR:**
reactor start-up
 Kernkraftwerk Isar in operation again. (E31). 470623
spent fuel storage
 Public hearing on compact storage racks in the Ohu and Grafenrheinfeld power plants. (E31, E32). 470622
 Three Mile Island: Too-complex safety systems caused operators' error. (E31, F22). 488035
- ISCHEMIA:**
diagnosis
 Clinicopathologic findings in 52 patients studied by technetium-99m stannous pyrophosphate myocardial scintigraphy. (C62). 487724
 Effects of maximal exercise stress on left ventricular function in patients with coronary artery disease using first pass radionuclide angiocardiology. (C62, C31; /sup 99m/Tc-perthechnetate). 487699
 Renal hyperconcentration of /sup 99m/Tc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of /sup 99m/Tc-HEDP, -DMSA, and -DTPA in rabbits). 487707
 Single injection thallium-201 stress and redistribution myocardial perfusion imaging: comparison with stress electrocardiography and coronary arteriography. (C62, C61). 473478
- ISING MODEL:**
absolute zero temperature
 Dilute spin glasses at zero temperature. (A13). 464119
analytical solution
 Hydrodynamic solution of the time-dependent Ising model. (A10). 463872
- anisotropy**
 Effects of anisotropy in the spin space on the structural phase transition of the one-dimensional XY model. (A13). 471548
- correlations**
 Extremal A-inequalities for Ising models with pair interactions. (A13). 481113
- critical temperature**
 Monte Carlo renormalization group. (A11). 477682
- excitation**
 Elementary magnetic excitations in Ising-like systems. (A13). 477950
- gauge invariance**
 Phase structure of discrete Abelian spin and gauge systems. (A11). 488593
- partition functions**
 Yang-Lee edge singularity in the hierarchical model. (A13). 474701
- quantum mechanics**
 Application of quasiclassical methods to uniaxial spin systems. (A11). 483128
 Strong-coupling expansions and phase diagrams for the O(2), O(3), and O(4) Heisenberg spin systems in two dimensions. (A11). 488623
- relaxation**
 The critical relaxation of a 1-D conserved magnetisation Ising model. (A13). 464115
- renormalization**
 Comment on the SLAC renormalization-group approach to the Ising chain in a transverse magnetic field. (A11). 488598
- scaling laws**
 Painleve transcendents and scaling functions of the two-dimensional Ising model. (A11). 477685
- series expansion**
 High temperature series for an Ising model in a random field. (A13). 464212
 Methods of series analysis. III. Integral approximant methods. (A11). 480987
- singularity**
 Yang-Lee edge singularity in the hierarchical model. (A13). 474701
- statistical mechanics**
 Statistical mechanics and field theory. (A11; Path integrals, lattices, pseudofree vertex model). 488720
- two-dimensional calculations**
 Monte Carlo renormalization group. (A11). 477682
- ISLANDS:**
 See also BIKINI; ENIWETOK; MARSHALL ISLANDS
- ISOBAR MODEL:**
a1-1070 resonances
 Analysis of the A₁ (A21). 486003
- photoproduction**
 Coherent π^0 photoproduction in the isobar-hole formalism. (A33). 490076
- pion-nucleon interactions**
 Interference of isobars in $\pi N \rightarrow \pi \pi N$. (A21). 486045
- rescattering**
 Are there important unitarity corrections to the isobar model. (A21). 489722
- resonance scattering**
 Unstable-particle scattering and an analytic quasi-unitary isobar model. (A21). 464753
- unitarity**
 Are there important unitarity corrections to the isobar model. (A21). 489722
 Unstable-particle scattering and an analytic quasi-unitary isobar model. (A21). 464753
- ISOBARIC ANALOGS:**
line broadening
 Line-broadening and Coulomb-energy shifts of the hole-state analogs in the Sn-113, 115, 117, 119, 121, 123 isotopes. (A34). [Data] 490183
- resonance**
 Fragmented gsub(9/2) isobaric analogue resonance in the $^{52}\text{Cr}(p, \gamma)^{53}\text{Mn}$ reaction. (A34). 472247
- ISOBARIC MODEL:**
 See ISOBAR MODEL
- ISOBARIC NUCLEI:**
 (Nuclei having identical mass number.)
binding energy
 Nuclear charge dependent interactions in the 1p shell. (A33). 486251
- photoproduction**
 Isobars and the medium-energy (γ, p) reaction. (A33). 475755
- pion reactions**
 Peculiarities of angular distributions of elastically scattered nuclei-isobar of neighbouring elements (possible method for the low-energy pion-nucleus interaction study). (A33). 468292
- ISOBARIC SPIN:**
 See ISOSPIN
- ISOBARS (NUCLEON):**
 See N^o RESONANCES
- ISOBUTANE:**
 See 2-METHYLPROPANE
- ISOBUTYL ALCOHOL:**
 See 2-METHYLPROPANOL
- ISOBUTYRIC ACID:**
chemical radiation effects
 Radiation degradation of poly(α -hydroxyisobutyric acid) and poly(glycolic ester). (B14; γ radiation). 460600
- polymerization**
 Radiation-induced, solid-state polymerization of derivatives of methacrylic acid. (B14). [Data] 479243
- radiolysis**
 Radiation-induced, solid-state polymerization of derivatives of methacrylic acid. (B14). [Data] 479243
- ISOCRONOUS CYCLOTRONS:**
 See also ALICE CYCLOTRON; ORNL ISOCRONOUS CYCLOTRON; SIN CYCLOTRON; TRIUMF CYCLOTRON; UCLRL CYCLOTRONS
- activation analysis**
 Previous plans for medical use of U-103 cyclotron. (E16, F61). 494812
- beam extraction**
 The 103-cm compact cyclotron beam extraction system. (E16). 487904
- hungary**
 The significance of the Debrecen cyclotron from scientific and practical aspects. (E16). 484856
- isotope production**
 Chemical problems of isotope production by cyclotron. (B13). 493768
 Possibilities of medical isotope diagnostics with U-103 cyclotron. (D13, F61). 494659
 Previous plans for medical use of U-103 cyclotron. (E16, F61). 494812
- magnetic fields**
 Calculation of the magnetic field of the isochronous cyclotron sector magnet by the integral equation method. (E16). 476952

- The 103-cm compact cyclotron magnetic field. (E16). 487905
multicharged ions
 Main parameters of the 150 cm isochronous cyclotron in the Kurchatov Institute of Atomic Energy. (E16). 466525
neutron therapy
 Previous plans for medical use of U-103 cyclotron. (E16, F61). 494812
planning
 The significance of the Debrecen cyclotron from scientific and practical aspects. (E16). 484856
radiopharmaceuticals
 Chemical problems of isotope production by cyclotron. (B13). 493768
septum magnets
 Deflection device with septum and anti-septum for a cyclotron. (E16). 466557
superconducting magnets
 Computer analysis of the mutual field influence of the superconducting sector magnets. (E16). 477083
- ISOCYANATES:**
 See **CYANATES**
- ISODOSE CURVES:**
buildup
 SMV build-up region curves: a method of calculation. (D15). 491415
computer calculations
 Method of isodose fields computer calculations of proton irradiation in radiotherapy. (C55). 480183
corrections
 Air-gap correction in electron treatment planning. (C55, C63). [Data] 473311
gamma dosimetry
 Comparison of measured relative isodose distributions in tangential stationary fields of Co-60 radiation with calculated isodose plans. (D15, C45, E41). 461465
- ISOELECTRONIC ATOMS:**
eigenvalues
 The total Hartree-Fock energy-eigenvalue sum relationship in atoms. (A12). 474655
electron correlation
 Momentum distributions for two-electron systems: electron correlation and the Coulomb hole. (A12). 462099
energy levels
 Some potential-energy relationships for isoelectronic atomic series. (A12). 471381
potential energy
 Some potential-energy relationships for isoelectronic atomic series. (A12). 471381
schrodinger equation
 Finite-difference solution to the Schrodinger equation for the helium isoelectronic sequence. (A12). 459735
structure functions
 Momentum distributions for two-electron systems: electron correlation and the Coulomb hole. (A12). 462099
- ISOENZYMES:**
radiation protection
 Changes in activity of serum alkaline phosphatase isoenzymes in radioprotected irradiated animals. (C14). 476561
- ISOMERIC NUCLEI:**
nuclear deformation
 Nuclear shape isomerism in ¹⁸³Hg detected by laser spectroscopy. (A34). 483859
nuclear matter
 On the possibility of detecting density isomers in high energy heavy ion collisions. (A33). 478680
particle-hole model
 Particle-hole structure of nuclear isomers at high angular momenta. (A33). 468285
- ISOMERIC TRANSITION ISOTOPES:**
 See also *more specific entries as listed in the INIS Thesaurus.*
- ISOSPIN:**
invariance principles
 Light-quark masses and isospin violation. (A21). 486048
symmetry breaking
 Broken isospin symmetry in chiral SU(4) x SU(4) and D⁺ - D⁰ mass difference. (A21). 462547
- ISOTONES:**
 See **ISOTONIC NUCLEI**
- ISOTONIC NUCLEI:**
 (Nuclei having identical number of neutrons.)
interacting boson model
 The N=90 isotones in the IBA-model. (A33). 490099
nuclear models
 Particle-rotor model study of the transitional N = 89 and some N = 91-95 nuclei. (A33). 490073
- ISOTOPE ANALYSIS (QUANTITATIVE):**
 See **ISOTOPE RATIO**
- ISOTOPE APPLICATIONS:**
 See also **ISOTOPE DILUTION; RADIOACTIVE TRACER LOGGING; RADIOIMMUNOASSAY; TRACER TECHNIQUES**
cost benefit analysis
 Department of Energy's beneficial uses of radioisotopes program. (D20). 463493
iaea
 International aspects of isotopes and radiation development and use. (F61). 463847
reviews
 The application of radioisotopes in technology. (D21). 484788
- ISOTOPE COMPOSITION:**
 See **ISOTOPE RATIO**
- ISOTOPE COMPOSITION (QUANTITATIVE):**
 See **ISOTOPE RATIO**
- ISOTOPE DATING:**
 Carbon isotopes: variations of their natural abundance. Application to correction of radiocarbon dates, to the study of plant metabolism and to paleoclimate. (B11). [Data] 483981
accuracy
 Radioisotope dating with accelerators. (D10). 470213
argon 40
 Contemporaneity of tertiary granites in the outer zone of Southwest Japan. (B31). 476456
calcium carbonates
 Uranium series dating of travertine from archaeological sites, Nahal Zin, Israel. (B31). 481940
carbon 13
 Petroleum-bedrock correlations and identification of bacterial petroleum decomposition with the aid of carbon isotope analyses. (B31). 469524
carbon 14
¹⁴C-ages and pollen analysis of the Quaternary deposits in the Obama Plain, Fukui Prefecture. (B31). 469530
 Bracketing dates for two ash falls from Mount Mazama. (B11). 475893
 Extending the range of radiocarbon dating; and reply. (B11). 460378
 Holocene emerged coral reef in Takarajima and Kodakarajima, Ryukyu islands, Southwest Japan. (B31). 476445
 Holocene stratigraphy and vegetation history in the Scoresby Sund area, East Greenland. (B31; Carbon 14 dates). 462964
 Hydrodynamic aspects of carbon-14 groundwater dating. (B32). [Data] 462991
 Physical research laboratory radiocarbon dates : CSII. (B31). [Data] 462957
 Preliminary results of the study of isotopic fractionation during chemical purification of carbon dioxide for radiocarbon dating. (B13). 493777
 A radiocarbon date from Lake Bogoria, Kenya Rift Valley. (B11). [Data] 462686
 Radiocarbon dating - a status report. (B31). 462969
 Radiocarbon measurements on submerged forest floating chronologies. (B11). [Data] 472324
 The study of rejuvenate and grown old factors in radiocarbon dating of Quarter. (B31). 494215
 Tohoku University radiocarbon measurements, 6. (B31). 476448
ceramics
 Radiocarbon dates for two Khoi ceramic vessels from Conception Bay, South West Africa/Namibia. (C21). 476612
combustion
 A combustion bomb for carbon dating with reduced dry distillation effect. (B11). 468646
counting techniques
 Carbon-14 dating: a comparison of beta and ion counting. (B31, B11). 476460
distillation
 A combustion bomb for carbon dating with reduced dry distillation effect. (B11). 468646
ground water
 Carbon-14 measurements in aquifers with methane. (B32). [Data] 462980
 Some problems in the interpretation of isotope measurements in United Kingdom aquifers. (B32). [Data] 462988
 Uranium isotope disequilibrium in groundwaters of southeastern New Mexico and implications regarding age-dating of waters. (B32). [Data] 462982
india
 Rb-Sr age of Godhra and related granites, Gujrat, India. (B31). [Data] 481931
ion microprobe analysis
 Single-grain ²⁰⁷Pb/²⁰⁶Pb and U/Pb age determinations with a 10-μm spatial resolution using the ion microprobe mass analyzer (IMMA). (B31). 479596
krypton 85
 Krypton-85 dating of groundwater. (B32). [Data] 463003
lectures
 Lectures in isotope geology. (B31). 484348
mass spectroscopy
 Nuclear processes occurring in nature. (B31). 494219
minerals
 Rb/Sr and K/Ar dating of Slovakia's rocks, its possibilities and interpretation. (B31). [Data] 481925
potassium
 Contemporaneity of tertiary granites in the outer zone of Southwest Japan. (B31). 476456
pressure dependence
 Comment on the paper by M.Ozima et al., 'Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics'. (B31). 476467
 Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics. (B31). 476449
reviews
 Radioisotope clocks in archaeology. (B31). 490783
rubidium 86
 Rb-Sr geochronology and petrogenesis of the late mesozoic igneous rocks in the inner zone of the southwestern part of Japan. (B31). 476455
rubidium 87
⁸⁷Rb-⁸⁷Sr chronology of H chondrites: constraint and speculations on the early evolution of their parent body. (B31). 476441
sedimentation
²¹⁰Pb dating of annually laminated lake sediments from Finland. (B32). 487128

- sediments**
¹³C and ¹⁴C measurements on lake sediments of the Grosser Ploener See. (C31). 484599
- strontium 86**
 2,390 Myr Rb-Sr whole-rock for the Scourie dykes of north-west Scotland. (B31). [Data] 481927
- strontium 87**
⁸⁷Rb-⁸⁷Sr chronology of H chondrites: constraint and speculations on the early evolution of their parent body. (B31). 476441
- temperature dependence**
 Comment on the paper by M.Ozima et al., 'Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics'. (B31). 476467
 Temperature and pressure effects on ⁴⁰Ar-³⁹Ar systematics. (B31). 476449
- tuff**
 Isotopic ages of the Cretaceous tuff from the Obira area, Hokkaido. (B31). 462972
- uranium 238**
 Organic-geochemical age determination. (B31). 469508
- ISOTOPE DILUTION:**
activation analysis
 Application of displacement- and exchange reactions in neutron activation and isotope dilution analysis. (B11). 460414
mass spectroscopy
 Determination of isotopic composition and concentration of uranium, plutonium and neodymium by mass-spectrometric isotope dilution in the irradiated fuel of the Czechoslovak atomic power station A-1. (B11). [Data] 490319
quantitative chemical analysis
 Method for determining substances, for example cobalt, by subequivalent and superequivalent isotope dilution analysis. (B11). 462664
sensitivity
 Sensitivity of radioisotope methods of analysis. (B11). 478863
- ISOTOPE EFFECTS:**
chemical reaction kinetics
 Heavy atom kinetic isotope effects in HCN elimination from some tricyanides in methanol. (B12). 468737
deuterium compounds
 Chlorination of phenylsulfinylcyclopropanes and phenylthiocyclopropanes. (B12). 465353
dimerization
 Thermal ion-molecule reactions in oxygen-containing molecules. (B12). [Data] 462714
interfaces
 Adsorption of Et₄NBr at the mercury/electrolyte interface from water and heavy water solutions. (B12). 460480
photoelectron spectroscopy
 Study by photoelectron spectroscopy of isotopic effects in various polyatomic molecules. Comparison between experimental and calculated vibrational transitions probabilities. (A12; C₂H₄ = C₂D₄). 462105
superconductors
 Theory of the isotope effect in superconducting compounds. (A13, B12, A17). 485585
temperature dependence
 On the anomalous self-diffusion in β-zirconium: Temperature dependence of the isotope effect. (B22). [Data] 472643
- ISOTOPE ENRICHED MATERIALS:**
 See also ENRICHED URANIUM; HIGHLY ENRICHED URANIUM; SLIGHTLY ENRICHED URANIUM
- ISOTOPE ENRICHMENT:**
 See ISOTOPE SEPARATION
- ISOTOPE EXCHANGE:**
 See ISOTOPIC EXCHANGE
- ISOTOPE PRODUCTION:**
hungary
 Recent developments and trends in the production of radioisotopes in Hungary. (D13). 487780
iodine 123
 Formation rate of xenon and iodine short half-lives radioisotopes studied with the Orsay synchrocyclotron for a medical use. (C31). 484601
japan
 Isotope demands and supplies in Japan and problems. (D10). 463481
 Radioisotope production by reactors and cyclotrons in Japan. (D13). 470233
krypton 81
 Production of radioisotopes for nuclear medicine. (D13). 491396
radioisotope generators
 14 MeV neutron generators for radionuclide production. (D14). 480294
sin cyclotron
 SIN: cyclotron performance; radioisotope production; muon physics. (E16). 480423
spallation
 Production of ¹²³Xe(¹²³I) by spallation reactions at 1 GeV proton energy and synthesis of compounds labelled by ¹²³I. (A34, B13, D13). 465080
- ISOTOPE PRODUCTION REACTORS:**
 See also ALRR REACTOR; APSARA REACTOR; CIRUS REACTOR; CP-5 REACTOR; DIDO REACTOR; EL-3 REACTOR; ETR REACTOR; EWA REACTOR; FIR-1 REACTOR; FR-2 REACTOR; FRG-2 REACTOR; GETR REACTOR; HIFAR REACTOR; HTR REACTOR; JRR-3 REACTOR; KUFR REACTOR; MARIA REACTOR; NRU REACTOR; NRX REACTOR; R-A REACTOR; SILOE REACTOR; TRIGA-2-LJUBLJANA REACTOR; WWR-S-BUDAPEST REACTOR
- ISOTOPE RATIO:**
 Evaluation of analytical capabilities for accurate prediction of isotopic correlation ratios. (E23). 488006
- c codes**
 CASMO - Benchmark Report. (E21). [Data] 480540
cesium 137
 Utilization of radiochemical and mass-spectrometric analysis of the spent fuel of the A-1 power plant for non-destructive burn-up determination. (B16). [Data] 490526
emission spectroscopy
 Emission spectrometry system for analysing the composition of a gaseous mixture. (B11; isotope mixture). 462657
hydrology
 Rare gas isotopes in the hydrogeology. (B32, B11; ⁴He, ²⁰Ne, ²¹Ne, ²²Ne, ³⁶Ar, ³⁸Ar, ⁴⁰Ar). 487133
lead 204
 Investigation of the anomalous isotope ratios of the Central-Transdanubian bauxites. (B31). [Data] 479646
lead 206
 Investigation of the anomalous isotope ratios of the Central-Transdanubian bauxites. (B31). [Data] 479646
mass spectrometers
 Using a fully automatic mass spectrometer for fissile material control. (F41). 474377
mass spectroscopy
 Isotopic analysis of uranium by thermoionic mass spectrometry. (B11, B16). [Data] 472371
 Mass spectrometric analysis of lithium. (B11). 481623
 On mass spectrometric isotopic analysis. (B11). 468623
nondestructive analysis
 A non-destructive field measurement of the ²³⁵U/²³⁸U ratio in depleted to moderately enriched uranium. (E41, B31). 480748
sample preparation
 On emission-spectrometric ¹³N analysis using the NOI-5 apparatus. (B11). 486530
thermionic emission
 Fractionation effect in thermionic emission of lithium isotopes. (B11). 462655
water
 Determination of long-lived oxygen and hydrogen isotopes as methodologies applied in hydrogeology. (B32). 462979
- ISOTOPE SEPARATION:**
 (For separation of isotopes of the same element only.)
 See also DUAL TEMPERATURE PROCESS; ELECTROMAGNETIC ISOTOPE SEPARATION; GASEOUS DIFFUSION PROCESS; LASER ISOTOPE SEPARATION; SEPARATION NOZZLE METHOD
 Isotope separation. (D10). 473534
 Isotope separation process. (D11, B12; Patent; passing a stream of the gaseous isotopic elements or compounds at high velocity into a low-molecular-weight stopping gas). 461433
adsorbents
 Method and device for activating and regenerating adsorbents used for enrichment of hydrogen isotope. (D13). 473561
carbon 13
 A model for isotope fractionation during anorganic line precipitation in a small river north of Goettingen. (B12, B32). 468875
chemical vapor deposition
 Isotope separation by chemical vapour deposition and related processes. (B12). 484056
chromatography
 Theory of chromatographic separation of isotopes. (3). (D13). 482504
coherent radiation
 Process for isotope separation by the aid of a coherent electromagnetic radiation. (D11, B12). 461441
dissociation
 A note on hydrogen isotope fractionation involving acidic and basic solutions. (B32, B12). 494224
distillation
 Hydrogen isotope distillation for fusion power reactors. (A14, D13). 471609
electrophoresis
 Separation of isotopes of lithium and uranium by electromigration using cation exchange membranes. (B12, B13). 475954
enriched uranium
 Method for the selective separation of uranium from solutions using an ion exchanger. (D11). 473538
excitation
 Isotope separation using vibrationally excited molecules. (D11, D13). 473542
gas centrifugation
 Process and isotope enrichment equipment by centrifugation. (D11). 484771
gas centrifuges
 Flow profile measurements of gas in a rotating cylinder. (D11). 482499
half-life
 A compact tape transport station for on-line studies of short-lived nuclides. (E41). 485049
ion exchange
 Method for the selective separation of uranium from solutions using an ion exchanger. (D11). 473538
ion exchange materials
 Dependence of chlorine isotope separation on the degree of cross linkage of a strongly basic anion exchange resin. (B12, B11). 486610
ion sources
 TRISTAN II: extension of the TRISTAN facility to the study of non-gaseous activities. (E41). 485131
ionization
 Isotopically selective photoexcitation. (D13). 494654

- laser radiation**
 Method for separation of isotope compounds. (D11). 484769
 Method to separate isotopes. (D13). 487783
 Photochemical isotope separation method. (D13). 482505
- nozzles**
 Separation of uranium isotopes in a countercurrent vortex tube. (D11). 461434
- on-line measurement systems**
 A compact tape transport station for on-line studies of short-lived nuclides. (E41). 485049
- oxygen 18**
 A model for isotope fractionation during anorganic line precipitation in a small river north of Goettingen. (B12, B32). 468875
- photochemistry**
 Photochemical isotope separation method. (D13). 482505
- plasma**
 Characteristic analysis of isotope separation in rotating plasma. (B12). 476043
- research programs**
 Mound Facility activities in chemical and physical research: July-December 1978. (B12, D13). 476032
- reviews**
 Nuclear fuel cycle. Vol. 1. (B16, E23). 469023
- standardized terminology**
 Nuclear technology. (D11). 476825
- targets**
 TRISTAN II: extension of the TRISTAN facility to the study of non-gaseous activities. (E41). 485131
- uranium hexafluoride**
 Method for the isotope separation of gaseous material mixtures. (D11). 473541
 Method to separate isotope compounds. (D11). 473545
- uranium isotopes**
 Comparison of two types of ideal cascades for asymmetric separation processes. (D11). 482502
- uranium 235**
 Process for the enrichment of uranium 235 in uranium salt solutions. (D11). 480284
- ISOTOPE SEPARATION PLANTS:**
 See also CENTRIFUGE ENRICHMENT PLANTS; GASEOUS DIFFUSION PLANTS; HEAVY WATER PLANTS; PORTSMOUTH GASEOUS DIFFUSION P
- environmental impacts**
 Environmental Development Plan for advanced isotope separation. (C52, D11, C54). 494403
- financing**
 Status report on uranium enrichment associates. (D11). 487766
- gaskets**
 Gasket for uranium enrichment plant. (D11). 470218
- safeguards**
 Minor isotope measurements for safeguarding a uranium enrichment plant. (F41, D11). 480930
- safety**
 Safety concerning the alteration in fuel material usage (new installation of the uranium enrichment pilot plant) at Ningyo Pass Mine of Power Reactor and Nuclear Fuel Development Corporation. (C52). 463361
- ISOTOPE SHIFT:**
 See SPECTRAL SHIFT
- ISOTOPE:**
 See also more specific entries as listed in the INIS Thesaurus.
- diagrams**
 Nuclides and isotopes. Twelfth edition. (A30, B12). 472089
- gamma radiation**
 Gamma-ray catalog. Pt. 1, 2. (A34). [Data] 483918
- spontaneous fission**
 Analysis of data on the neutron multiplicity at spontaneous fission of a new natural nuclide detected in some meteorites. (A33). 486280
- ISOTOPIC ANALYSIS (QUANTITATIV):**
 See ISOTOPE RATIO
- ISOTOPIC COMPOSITION (QUANTITATIVE):**
 See ISOTOPE RATIO
- ISOTOPIC EFFECTS:**
 See ISOTOPE EFFECTS
- ISOTOPIC EXCHANGE:**
 See also DUAL TEMPERATURE PROCESS
- catalysis**
 Isotopic exchange of molecular oxygen with oxygen of V_2O_5 modified with oxides of alkaline earth metals. (B12). [Data] 462724
- chemical reaction kinetics**
 Investigation of the kinetics of acyl group exchange Pt. 6. (B13). [Data] 465441
- kinetics of the exchange between delta-manganese dioxide and tritiated water. (B13). [Data] 462760**
- chemical reaction yield**
 Theoretical study of hot-atom chemistry. The T + HD exchange reactions. (B13, B12). 486733
- chromium complexes**
 Studies on the isotopic exchange kinetics in the $[Cr(NH_3)_4(NCS)_4]^-$ $N^{14}CS^-$ system. (B12). [Data] 493742
- deuterium**
 Infrared study of surface hydroxyl groups on zirconium oxide. (B12). 465430
- deuterium compounds**
 Dynamics of helix-coil transition and isotope exchange reaction. (B12). 472439
- lithium chlorides**
 An aspect of chlorine isotopic exchange. (B12). [Data] 493602
- organic chlorine compounds**
 An aspect of chlorine isotopic exchange. (B12). [Data] 493602
- oxygen 18**
 The oxygen exchange from $O_2/C^{18}O_2$ with surfaces of vanadium pentoxide and alkali metal-promoted vanadium pentoxide catalysts. (B12). 460462
- quantitative chemical analysis**
 Application of radioanalytical methods based on isotope exchange in the analysis of foodstuffs. (B11). 478824
- thermodynamic properties**
 Investigation of the kinetics of acyl group exchange Pt. 6. (B13). [Data] 465441
- thiocyanates**
 Studies on the isotopic exchange kinetics in the $[Cr(NH_3)_4(NCS)_4]^-$ $N^{14}CS^-$ system. (B12). [Data] 493742
- tracer techniques**
 Isotopically exchangeable phosphorus in relation to soil characteristics. (C41). 463313
- tritium**
 Contribution to the study of isotopic exchange of hydrogen in purine derivatives. (B12). 462747
- ISOTOPIC SEPARATION:**
 See ISOTOPE SEPARATION
- ISOTOPIC SHIFT:**
 See SPECTRAL SHIFT
- ISOTOPIC SPIN:**
 See ISOSPIN
- ISOTOPIC SUBSTITUTION:**
 See ISOTOPIC EXCHANGE
- ISOVECTORS:**
dirac equation
 Normalizable solutions to the Dirac equation in the presence of a magnetic monopole. (A11, A21). 488680
- ISRAEL:**
nuclear power plants
 Planning for safety review of nuclear power plants in Israel. (F61). 495300
- superphosphates**
 Uranium separation from phosphates and the fuel cycle process. (F12). 492290
- ISX TOKAMAK:**
 Pneumatic hydrogen pellet injection system for the ISX tokamak. (A14). 467628
- beam injection heating**
 Evolution of neutral-beam driven current in tokamak plasmas. (A14). 464470
- PLT and ISX neutral beam injectors. (A14). 464339**
- charge exchange**
 Charge exchange measurements on ISX-A. (A14). 478135
- confinement time**
 Plasma confinement studies in the ISX-A tokamak. (A14). 475104
- electric discharges**
 Observations of arcing in the ISX-A tokamak. (A14). 464413
- first wall**
 Wall conditioning by low power discharge in the ISX-A tokamak. (A14). 489174
- gas analysis**
 Residual gas analysis in the ISX-A tokamak. (A14). 475130
- impurities**
 Observations of arcing in the ISX tokamak. (A14). 464413
- Residual gas analysis in ISX-A. (A14). 475992**
- Surface impurity studies in the ISX-A tokamak. (A14). 475003**
- Time dependence of gases from plasma-wall interactions in ISX-A. (A14). 489340**
- joule heating**
 Maximum energy-confinement time in Joule-heated tokamaks. (A14). 475148
- Plasma confinement studies in the ISX-A tokamak. (A14). 475104**
- limiters**
 ISX-A graphite limiter experiment. (A14). 489238
- neutral atom beam injection**
 Analysis of the Impurity Flow Reversal Experiment. (A14). 485669
- ormak devices**
 Injection-dominated Tokamak experiments at ORNL. (A14). 464427
- plasma diagnostics**
 Langmuir probe measurements of the scrape-off plasma in ISX-A. (A14). 467638
- survey of modes and their effects in ORMAK, ISX-A, and ISX-B. (A14). 464302**
- plasma heating**
 Recent progress in tokamak experiments. (A14). 485779
- plasma macroinstabilities**
 survey of modes and their effects in ORMAK, ISX-A, and ISX-B. (A14). 464302
- reactor fueling**
 Hydrogen-pellet fueling experiments on the ISX-A tokamak. (A14). 467629
- reviews**
 General machine and injection characteristics of the ISX-B injection experiment. (A14). 485705
- Recent progress in tokamak experiments. (A14). 485779**
- ITALY:**
environment
 Quality control procedures applied to environmental radioassay in Italy. (B11, B32, B33). 462669
- hydrology**
 Isotope hydrology of the Val Corsaglia, Maritime Alps, Piedmont, Italy. (B32). [Data] 460879

- Use of isotopic geothermometers in the Larderello geothermal field. (B32). [Data] 463000
- nuclear power**
- Nuclear power in Italy. (E30). 484942
- ITEP SYNCHROTRON:**
(Institute of Theoretical and Experimental Physics Synchrotron) **foundations**
- About necessary accuracy of geodesic measurements of modern accelerator technological units and foundations shifts and deformations. (E16). 487925
- ITERATIVE METHODS:**
See also **FINITE DIFFERENCE METHOD**
- nonlinear problems**
- On iterative methods for solving some nonlinear physical problems. (A11). 488741
- IUDR:**
See **IODODEOXYURIDINE**
- J-J COUPLING:**
- crystal field**
- Mean-field theory of antiferromagnetic spin Hamiltonian with four spin interactions for bcc lattice. (A17). 464725
- fermions**
- An orthonormalization method: theory and application to the j-j coupling of fermions in a single j-shell. (A11). [Data] 483107
- J-3105 RESONANCES:**
See **PSI-3105 RESONANCES**
- JAERI:**
(Japan Atomic Energy Research Institute) **information**
- Technical publications by JAERI staff from January 1977 to December 1977. (F61). 492375
- on-line systems**
- JAERI Tokai on-line network system. (F31). 492310
- reactor safety**
- Present status of nuclear power safety studies in JAERI. (C52). 473233
- research programs**
- Annual report and account of the Japan Atomic Energy Research Institute. (F62). 477565
- Annual report and account of the Japan Atomic Energy Research Institute. (F62). 482978
- Annual report of the Japan Atomic Energy Research Institute, for fiscal 1977. (F62). 474400
- Annual report of the Japan Atomic Energy Research Institute, for fiscal 1976. (F62). 477564
- Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (no. 11). (B14). 481728
- Research and development of radiation utilizations in 1978 at JAERI. (D13). 473556
- JAERI FUSION TORUS-2A:**
See **JFT-2A TOKAMAK**
- JAHN-TELLER EFFECT:**
- coupling constants**
- Calculation of first-order and second-order Jahn-Teller coupling constants in $\text{MgO}:\text{V}^{2+}$ and $\text{KMgF}_3:\text{V}^{2+}$. (A12). [Data] 474552
- JAPAN:**
See also **HIROSHIMA**
- drinking water**
- ^{90}Sr and ^{137}Cs in service water. (B32). [Data] 490832
- dusts**
- ^{90}Sr and ^{137}Cs in air-borne dust. (B33). [Data] 490860
- energy policy**
- Basic plans of atomic energy development and utilization for fiscal 1978. (F61). 463838
- Japan's energy policy; break from frailty. (F11). 482930
- Nuclear power development in Japan and international problems. (F11). 474325
- fallout**
- ^{90}Sr and ^{137}Cs in rain and dry fallout. (B33). [Data] 490859
- fuel cycle**
- White paper on atomic energy in 1978. (F61). 477556
- isotope production**
- Isotope demands and supplies in Japan and problems. (D10). 463481
- meteorology**
- Report of meteorological observation on the site of Tokai Research Establishment in 1972. (B33). 469561
- natural radioactivity**
- External exposure due to natural radiation (Kanto). (B33). [Data] 490875
- nuclear industry**
- The 18th survey of the state of nuclear power industry. (F61). 474396
- nuclear power**
- Key issues of nuclear power R D in Japan. (F61). 482960
- Nuclear power in Japan. (E20). 477098
- White paper on atomic energy in 1978. (F61). 477556
- nuclear power plants**
- Cost effective quality program for the manufacturer of piping fittings. (F11, E22; Japan; nuclear power plants). 474326
- Nuclear power in Japan. (E20). 477098
- radiation doses**
- A basic study in 1977 to estimate radiation exposure of Japanese population. (C55). 482267
- Basic survey for the estimation of national doses. (C55). 473324
- radiation monitoring**
- The observation of atmospheric and sea water radioactivity in Japan for the year 1976. (B33). 472875
- research programs**
- Long-term atomic energy research, development and utilization program formulated. (F61). 477555
- technology transfer**
- Nuclear power in Japan today. (F61, E31, E32). 466981
- JAPAN ATOM. EN. RES. INSTITUTE:**
See **JAERI**
- JAPAN ATR FUGEN:**
See **JATR REACTOR**
- JAPAN FAST EXPERIM. BREED. REA:**
See **JOYO REACTOR**
- JAPAN HTR:**
See **HTR REACTOR**
- JAPAN INST PLASMA PHYS STELLAR:**
See **JIPP STELLARATOR**
- JAPAN MATERIALS TESTING REACTO:**
See **JMTR REACTOR**
- JAPAN OCEANOGRAPH. SHIP REA. MUTSU:**
See **MUTSU REACTOR**
- JAPAN POWER DEMONSTR. REACTOR-2:**
See **JPRD-2 REACTOR**
- JAPAN POWER DEMONSTRATION REAC:**
See **JPRD REACTOR**
- JAPAN RESEARCH REACTOR-2:**
See **JRR-2 REACTOR**
- JAPAN RESEARCH REACTOR-3:**
See **JRR-3 REACTOR**
- JAPAN RESEARCH REACTOR-4:**
See **JRR-4 REACTOR**
- JAPANESE ORGANIZATIONS:**
See also **JAERI**; **PNC**
- information**
- Bibliography of published papers, 1977. (F61). 482974
- research programs**
- Annual report of Research Center for Nuclear Physics, Osaka University. (F62). 474401
- JASTROW THEORY:**
- binding energy**
- Neutron matter in Jastrow theory. (A33). 468286
- neutron density**
- Neutron matter in Jastrow theory. (A33). 468286
- variational methods**
- Jastrow wave function of Yukawa Bose fluids: Monte Carlo computation. (A33). 486284
- wave functions**
- Feynman graphs for Jastrow wave functions. (A33). 460309
- JATR REACTOR:**
- Fugen HWR reaches commercial operation. (E34). 491954
- The world's reactor, no. 75 Fugen. (E34). 491942
- construction**
- Manufacture and installation experience of the pressure vessels of the prototype heavy water moderated, boiling light water cooled reactor "Fugen". (E34). 482783
- containment buildings**
- Vibration experiment of reactor building for advanced thermal reactor "Fugen". (E34). 477269
- control rod drives**
- Manufacture and installation experience of the pressure vessels of the prototype heavy water moderated, boiling light water cooled reactor "Fugen". (E34). 482783
- performance testing**
- Pre-commissioning test of heavy water reactor "Fugen". (E34). 482784
- planning**
- Development of the advanced thermal reactor "Fugen". (E34). 491946
- primary coolant circuits**
- Manufacture and installation experience of the pressure vessels of the prototype heavy water moderated, boiling light water cooled reactor "Fugen". (E34). 482783
- JAW:**
- biological radiation effects**
- Carcinoma of the floor of the mouth. (C15, C63, C64; Side effects of external and interstitial radiotherapy). 461071
- metastases**
- Facial bone scintigraphy. I. (C61). 480210
- neoplasms**
- Contact gamma and neutron therapy in combined treatment of upper jaw neoplasms. (C63). 494630
- scintiscanning**
- Facial bone scintigraphy. I. (C61). 480210
- Quantitative radionuclide imaging for early determination of fate of mandibular bone grafts. (C62, C21; /sup 99m/Tc-I-hydroxy-ethane-1-diphosphonate (HEDP); Beagles). 473487
- x-ray dosimetry**
- Absorbed bone marrow dose in certain dental radiographic techniques. (C15, C61). 473031
- JEJUNUM:**
See **SMALL INTESTINE**
- JENSEN SARCOMA:**
See **EXPERIMENTAL NEOPLASMS**
- JET MODEL:**
- Chromodynamic theory of hadrons. (A21). 493056
- Corrections of the Serman-Weinberg jet formula. (A21). 478507
- Jets and QCD. (A21). 493085
- Recent high p/sub T/ results from the CERN ISR. (A21; Review, cross sections). 489893
- asymmetry**
- Forward-backward asymmetries with quark jets. (A21). 468009
- Forward-backward asymmetries with quark jets. (A20, E16). 468005
- color model**
- Exponentiation of leading logarithmic corrections to cross sections of colour jet production. (A21). 489885

- correlations**
Large transverse momentum phenomena. (A22). 460227
decay
Nonscaling inclusive distributions and long-range correlations in jet-decay models. (A21). 475523
electroproduction
Charge retention in deep-inelastic electroproduction. (A21). 478438
hadrons
Hadron distributions in quark jets. (A21). 478454
limiting fragmentation
A semiclassical model for quark jet fragmentation. (A21). 464742
multiple production
Large P sub(t) jets and correlating quark rearrangement model. (A21). 472024
multiplicity
Nonscaling inclusive distributions and long-range correlations in jet-decay models. (A21). 475523
particle production
Hadron and photon production at large transverse momentum and the dynamics of QCD jets. (A21). 471980
quantum chromodynamics
Hadron and photon production at large transverse momentum and the dynamics of QCD jets. (A21). 471980
High energy predictions from perturbative Q.C.D. (A11, A21). 488681
Jets in high energy collisions. (A21). 472008
Multiplicity distributions in QCD. (A21). 478464
A simple algorithm for QCD jets-an introduction to jet calculus. (A21). 472015
reviews
Jets in high energy collisions. (A21). 472008
scalars
Axes and scalar measures of two-jet and three-jet events. (A21). 464760
space-time
High-energy inclusive annihilation processes. I. Physical picture and (ph)² theory. (A21, A11). 489822
statistical mechanics
Touschek invariant measure in a jet model with quantum statistics. (A21). 460165
weak hadronic decay
Three-jet distributions from weak decay of heavy particles. (A21; Final-state gluon). [Data] 489866
- JET TOKAMAK:**
The Joint European Torus - engineering aspects of the JET nuclear fusion project. (A14). 475045
buildings
Nuclear fusion finds a home in an Oxfordshire field. (A14). 492814
construction
Work on JET well advanced. (A14). 489308
control systems
Codas - the JET control and data acquisition system. (A14, F50; Joint European Torus.). 467510
cryopumps
Experimental system for studying cryopumping under operating conditions as in large fusion machines. (A14). 478006
data acquisition systems
Codas - the JET control and data acquisition system. (A14, F50; Joint European Torus.). 467510
remote handling
Remote handling in the JET experiment. (E15, A14). 494715
research programs
JET Project: progress in construction and management. (A14). 474954
Work on JET well advanced. (A14). 489308
stability
MHD theory of ballooning modes applied to JET, and the effect of anisotropic pressure on ballooning modes. (A14). 460007
- JETS:**
cooling
Cooling of heated plate by impinging bubble jet. (A14). 481215
mathematical models
Dynamics of Newtonian annular jets. (A14). 464440
spatial distribution
Study of an electrically driven jet. (A13). 477889
supersonic flow
The Erlangen windowless high density gas target for nuclear scattering experiments. (B12). 484016
turbulence
Viscous effects on a turbulent jet near nozzle exit. (A14). 485751
- JEZEBEL REACTOR:**
reactor kinetics
JEZEBEL and GODIVA. Informal report. (E36). 480729
- JFER REACTOR:**
See JOYO REACTOR
- JFT-2 TOKAMAK:**
(Tokamak device with circular cross section and no divertor.)
breakdown
Breakdown experiment on a Tokamak. (A14). [Data] 464474
confinement
Gross particle confinement characteristics by the boundary plasma in the JFT-2 Tokamak. (A14). 471739
hydrogen
Breakdown experiment on a Tokamak. (A14). [Data] 464474
research programs
Present status of nuclear fusion research and development in JAERI. (A14). 471665
turbomolecular pumps
Turbomolecular pumping systems for nuclear fusion devices in JAERI. (A14). 481217
- JFT-2A TOKAMAK:**
(Tokamak device with teardrop-like cross section and with an axisymmetric divertor.)
confinement time
Doppler temperature and particle confinement time determined from measurements of Hsub(α)-line on a tokamak plasma in the JFT-2a device. (A14). 464373
impurities
Divertor experiment for impurity control in DIVA. (A14). 464465
Metal impurity injection into DIVA plasmas with a Q-switched laser beam. (A14). 467727
interferometers
A 2-mm wave digital interferometer for tokamak discharges in the upgraded DIVA. (A14). 464422
ion temperature
Ion temperature characteristics of upgraded DIVA. (A14). 467692
research programs
Present status of nuclear fusion research and development in JAERI. (A14). 471665
turbomolecular pumps
Turbomolecular pumping systems for nuclear fusion devices in JAERI. (A14). 481217
- JINR:**
Main trends of cooperation of physicists in socialist countries. (F61). 463842
research programs
Physics at Dubna. (A20, A30). 489717
- JINR SYNCHROTRON:**
magnetic fields
Optimization of charged particle periodic trajectories by means of synchrotron magnetic field correction in rectilinear gaps. (E16). 491692
operation
Dubna synchrotron. Operation and improvement (the 3 rd quarter of 1978). (E16). 494748
performance
JINR synchrotron operation and improvement (the second quarter of 1978). (E16). 473734
- JIPP STELLARATOR:**
beam injection heating
Neutral beam injection in JIPP T-II device. (A14). 464389
confinement time
Tokamak experiments on JIPP T-II with pulsed gas injection. (A14). 467702
electron temperature
Thomson scattering measurement in J.I.P.P. T-II device. (A14). [Data] 489221
high-frequency heating
Lower hybrid wave heating in JIPP T-II. (A14). 464435
waveguides
Lower hybrid wave heating in JIPP T-II. (A14). 464435
- JMTR REACTOR:**
in pile loops
Introduction of elevated temperature components in OGL-1. (E37). 474014
- JOINING:**
See also ARC WELDING; BONDING; DIFFUSION WELDING; ELECTRON BEAM WELDING; ELECTROSLAG WELDING; FASTENING; GAS TUNGSTEN-ARC WELDING; LASER WELDING; PLASMA ARC WELDING; RESISTANCE WELDING; SUBMERGED ARC WELDING; WELDING
JOINT INST FOR NUCLEAR RESEARC:
See JINR
JOINTS:
(Mechanical joints only; see also BONE JOINTS.)
See also BOLTED JOINTS; BRAZED JOINTS; PIPE JOINTS; WELDED JOINTS
ultrasonic testing
Determine bond strength by ultrasonic measurement. (E17). 461562
- JOINTS (ANATOMY):**
See BONE JOINTS
- JOSEPH M. FARLEY-1 REACTOR:**
See FARLEY-1 REACTOR
- JOSEPH M. FARLEY-2 REACTOR:**
See FARLEY-2 REACTOR
- JOSEPHSON EFFECT:**
temperature dependence
Temperature dependence of the maximum d.c. Josephson current in superconducting proximity junctions. (A13). [Data] 481094
- JOSEPHSON JUNCTIONS:**
Josephson junctions (citations from the NTIS data base). Report for 1964 - August 1978. (E12). 473628
Josephson junctions. Volume 2. 1975 - August, 1978 (citations from the Engineering Index data base). Report for 191975 - August 1978. (E12). 473629
analytical solution
Characteristics of the long Josephson junction. (E12). 466491
cooper pairs
Low-voltage dynamical properties of superconducting weak links. (A17). 467988
critical current
Variable-thickness-type microbridges made of thin Nb films. (E12, A17). 487840
critical temperature
Penetration depth of superconducting films measured with Nb-NbOsub(x)-PbIn Josephson junctions. (A17). [Data] 464711
current density
Current-density distribution in Josephson tunnel junctions. (E12). 480375

- direct current**
 Thickness dependence of the maximum dc Josephson current in superconducting proximity junctions. (A17). 489683
- electric conductivity**
 Penetration depth of superconducting films measured with Nb-NbOsub(x)-PbIn Josephson junctions. (A17). [Data] 464711
- electric currents**
 Delay measurement of experimental 2.5-μm Josephson current injection logic (CIL). (E12). 480361
 Simple high-performance current-switched Josephson gate. (E12). 480358
- frequency dependence**
 Microwave response of superconducting variable-thickness microbridges. (E12). 487843
- magnetic flux**
 Kinetic momentum quantum effect in a superconducting closed loop composed of Josephson junctions. (E12). 487847
 On the broadening of the vortex width in a long Josephson tunnel junction. (A17). 489685
- noise**
 Low-noise parametric amplification at 35 GHz in a single Josephson tunnel junction. (E12). 487842
- oscillation modes**
 Parametric amplification on rf-induced steps in a Josephson tunnel junction. (E12). 480369
- perturbation theory**
 Perturbation calculation of the I-V characteristic of an extended Josephson junction. (A17). 478385
- response functions**
 Response times and the I-V characteristics of short Josephson junction. (E12). 466488
- time dependence**
 Response times and low-voltage behavior of SNS microbridges. (E12). 470325
- tunnel effect**
 On the broadening of the vortex width in a long Josephson tunnel junction. (A17). 489685
- JOULE HEATING:**
 Analysis of the early phase of tokamak plasma ohmic heating. (A14). 492846
- heliotron**
 Joule current inhibition in the Heliotron D device. (A14). [Data] 489272
- tokamak devices**
 Experimental results on the ERASMUS Tokamak. (A14). 489263
- JOURNAL BEARINGS:**
lubrication
 Theoretical and experimental study of a rotating field magnetohydrodynamic bearing. (E13). 473631
- JOYO REACTOR:**
containment systems
 Prompt report of leak test for containment vessel of Joyo reactor after sodium charge. (E35). 470760
- research programs**
 Progress report on fast breeder reactor development in Japan, October - December 1976. (E35). 492006
 Progress report on fast breeder reactor development in Japan, October - December 1977. (E35). 492005
 Project of developing fast breeder reactors in Japan. (E35). 477287
- JPDR REACTOR:**
cracks
 Piping cracks in JPDR. (1). (E31). 466678
- in-service inspection**
 Piping cracks in JPDR. (2). (E36). 482810
- JPDR-2 REACTOR:**
reactor kinetics
 Identifiability of dynamics of a boiling water reactor using autoregressive modeling. (E31). 482744
- JFPR REACTOR:**
 See MONJU REACTOR
- JRR-2 REACTOR:**
planning
 Research reactor grade-up program in JAERI. (E36). 485005
- reactor operation**
 Research reactor grade-up program in JAERI. (E36). 485005
- JRR-3 REACTOR:**
planning
 Research reactor grade-up program in JAERI. (E36). 485005
- reactor operation**
 Research reactor grade-up program in JAERI. (E36). 485005
- JRR-4 REACTOR:**
planning
 Research reactor grade-up program in JAERI. (E36). 485005
- reactor operation**
 Research reactor grade-up program in JAERI. (E36). 485005
- JT-60 TOKAMAK:**
beam injection heating
 Behavior of fast ions in a large Tokamak plasma during NBI heating. (A14). 464493
- control systems**
 Feedback control of plasma position, shape and current. (A14). 467705
- magnet coils**
 Toroidal ripple and error field of JT-60. (A14). 467644
- neutral atom beam injection**
 Conceptual design of the JT-60 neutral beam injection system (interim report). (A14). 467619
- performance**
 Studies on performances of the control system of plasma position and shape. (A14). 467489
- research programs**
 Present status of nuclear fusion research and development in JAERI. (A14). 471665
- stress analysis**
 Stress analysis of the JT-60 vacuum vessel. (A14). 489355
- JUNCTION DETECTORS:**
physical radiation effects
 Technique of improvement of the detector characteristics after long term irradiation. (E43). 495177
- JUNCTION TRANSISTORS:**
physical radiation effects
 Dose enhancement at the emitter interface of a bipolar junction transistor. (E41, E43). 470849
- JUNCTIONS:**
 See JOINTS
- JUNCTIONS (SEMICONDUCTOR):**
 See SEMICONDUCTOR JUNCTIONS
- JUPITER PLANET:**
albedo
 Spectral evidence for sublimates and adsorbates on Io. (A15). 492964
- angular momentum**
 Gravitational magnetism. (A15). 471916
- auroral hiss**
 Auroral hiss observed near the Io plasma torus. (A15). 492905
- cations**
 In situ identifications of various ionic species in Jupiter's magnetosphere. (A15). 492994
- deposition**
 Photometric evidence on long-term stability of albedo and colour markings on Io. (A15). 492962
- electron density**
 An interpretation of the Voyager measurement of jovian electron density profiles. (A15). 492858
- electron precipitation**
 Precipitation fluxes of energetic electrons at Jupiter: An estimated upper limit. (A15). 489644
- electrons**
 Jovian electron propagation out of the solar equatorial plane: Pioneer 11 observations. (A15). 485877
- geologic strata**
 Erosional scarps on Io. (A15). 492952
- helium**
 Solubility of helium in metallic hydrogen. (A13, A15). 471565
- lightning**
 First results on jovian lightning. (A15). 492879
- magnetic fields**
 The size of Jupiter's electrically conducting fluid core. (A15). 485878
- magnetic moments**
 Gravitational magnetism. (A15). 471916
- maps**
 Preliminary geological mapping of Io. (A15). 492950
- photometry**
 Photometric evidence on long-term stability of albedo and colour markings on Io. (A15). 492962
- planetary atmospheres**
 Jovian cloud structure and velocity fields. (A15). 492961
 A lower limit on the top of Jupiter's haze layer. (A15). 492878
 Models of the Jovian upper atmosphere. (A15). 489407
 Organic molecules in the atmosphere of Jupiter. Final report. (A15). 485924
- Pre-Voyager velocities, accelerations and shrinkage rates of jovian cloud features. (A15). 492861**
- The stability of an SO₂ atmosphere on Io. (A15). 492932**
- Voyage to the giant planet. (A15; Observations of the Jovian system). 485930**
- Voyager observations of small-scale waves in the equatorial region of the jovian atmosphere. (A15). 492911**
- Zonal velocity and texture in the jovian atmosphere inferred from Voyager images. (A15). 492913**
- planetary ionospheres**
 Localized deposition and sputtering of Jovian ionospheric sodium on Io. (A15). 471837
- planetary magnetospheres**
 Centrifugal distortion of the Jovian magnetosphere by an equatorially confined current sheet. (A15). 464586
 Compression of Jupiter's magnetosphere by the solar wind. (A15). 471917
- Departure from rigid co-rotation of plasma in Jupiter's dayside magnetosphere. (A15). 492954**
- Determining a radial diffusion coefficient from the observed effects of Jupiter's satellites. (A15). 460137**
- Energetic electrons in Jupiter's dawn magnetodisc. (A15). 489394**
- Energetics of terrestrial and Jovian magnetospheres. (B33). 484418**
- In situ identifications of various ionic species in Jupiter's magnetosphere. (A15). 492994**
- The Jovian magnetodisk. (A15). 483485**
- Jovian magnetosphere-satellite interactions: aspects of energetic charged particle loss. (A15). 489643**
- Jupiter's magnetic tail. (A15). 492966**
- Radial diffusion of Io-injected plasma. (A15). 489498**
- Self-consistent model of a rotating Jovian magnetosphere. (A15). 467778**
- Thermal electron density in the Jovian magnetosphere. (A15). 464624**
- plasma waves**
 Plasma wave turbulence at Jupiter's bow shock. (A15). 492980
- radiation belts**
 Jupiter's radiation belts. (A15). 483566

- radiowave radiation**
 Jovian longitudinal control of Io-related radio emissions. (A15). 464556
 Locations of Jovian decametric radiation sources. (A15). 483544
 Sector boundary passages and Jupiter's decametric radiation. (A15). 467906
- rings**
 Detection of Jupiter's ring at 2.2 μm . (A15). 475188
 On the Pioneer 11 observation of the ring of Jupiter. (A15). 492915
- satellites**
 Dynamics of volcanic plumes on Io. (A15). 492877
 Erosional scarps on Io. (A15). 492952
 Identification of gaseous SO_2 and new upper limits for other gases on Io. (A15). 492968
 Jovian magnetosphere-satellite interactions: aspects of energetic charged particle loss. (A15). 489643
 Origin of the jovian ring and the galilean satellites. (A15). 489612
 Photometric evidence on long-term stability of albedo and colour markings on Io. (A15). 492962
 Preliminary geological mapping of Io. (A15). 492950
 The role of SO_2 in volcanism on Io. (A15). 492987
 Significance of absorption features in Io's IR reflectance spectrum. (A15). 492890
 Spectral evidence for sublimates and adsorbates on Io. (A15). 492964
 The stability of an SO_2 atmosphere on Io. (A15). 492932
 Sulphur flows on Io. (A15). 492976
 Volcanic eruption plumes on Io. (A15). 492993
 Volcanic features of Io. (A15). 492870
 Volcanic resurfacing rates and implications for volatiles on Io. (A15). 492917
 Voyage to the giant planet. (A15; Observations of the Jovian system). 485930
 Voyager 1 photopolarimeter experiment and the phase curve and surface microstructure of Ganymede. (A15). 492967
- short wave radiation**
 A beaming model of the Io-independent Jovian decameter radiation based on multipole models of the Jovian magnetic field. (A15). 460072
 An emission mechanism for the Io-independent Jovian decameter radiation. (A15). 478250
- solar system evolution**
 Origin of the jovian ring and the galilean satellites. (A15). 489612
- stellar atmospheres**
 Spectrophotometry of the Jupiter at 0.6-1.1 μm . Brightness distribution and optical parameters of the atmosphere in the tropical and temperate belts of the Jupiter. (A15). 489649
- sulfur**
 Sulphur flows on Io. (A15). 492976
- sulfur oxides**
 Identification of gaseous SO_2 and new upper limits for other gases on Io. (A15). 492968
 Significance of absorption features in Io's IR reflectance spectrum. (A15). 492890
 Spectral evidence for SO_2 frost or adsorbate on Io's surface. (A15). 492988
- volcanoes**
 Dynamics of volcanic plumes on Io. (A15). 492877
 The role of SO_2 in volcanism on Io. (A15). 492987
 Volcanic eruption plumes on Io. (A15). 492993
 Volcanic features of Io. (A15). 492870
 Volcanic resurfacing rates and implications for volatiles on Io. (A15). 492917
- JUTE:**
 Stabilization of colour of woolenized jute by radiation chemical treatment. (B14). 484090
- radiosensitivity**
 Assessment of radiosensitivity from the germination of jute seeds. (C13). 476543
- K CONVERSION:**
 L x-ray yields from double-vacancy states in indium. (A12). [Data] 471352
- K MATRIX:**
 On Humblet's modified K matrix. (A33). 468329
- K REACTOR:**
 air filters
 Confinement of airborne radioactivity. Progress report, January-December 1977. (E37). 466746
 loss of coolant
 Response of a double tube sheet structure to hydraulic pressure transients. (C52, E37). 487616
 mechanical structures
 Recolonization of reactor cooling water system by the Asiatic clam *Corbicula fluminea*. (E37, C52). 492036
 off-gas systems
 Confinement of airborne radioactivity. Progress report, January-December 1977. (E37). 466746
 reactor cores
 Response of a double tube sheet structure to hydraulic pressure transients. (C52, E37). 487616
 transients
 Reactivity effects of moderator voids. (C52, E37). 473197
 void coefficient
 Reactivity effects of moderator voids. (C52, E37). 473197
- K SHELL:**
 (Atomic electron shells)
- coulomb ionization**
 Simple relativistic correction of the scaling parameter for K-shell Coulomb ionisation. (A12). 483237
- energy losses**
 The K-shell cross-section for 80 kV electrons in single-crystal graphite and AlN. (A32, B11). [Data] 472130
- excitation**
 Impact-parameter dependence of K-shell excitation in slow ion-atom collisions. (A12). 488866
- fluorescence**
 An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- inner-shell ionization**
 Inner-shell ionization by heavy charged particles. (A12). 474631
- ion-atom collisions**
 X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- ionization**
 Contribution to the study of ionization of elements by protons and alpha particles of 4 to 30 MeV. (A12). 467290
- nuclear screening**
 Sommerfeld screening parameters for the K level in x-ray spectra. (A12). 477794
- sommerfeld constant**
 Sommerfeld screening parameters for the K level in x-ray spectra. (A12). 477794
- vacancies**
 Double K-shell vacancies produced in near-symmetric collisions with Z approximately 53. (A12). 488910
- x radiation**
 Relative intensities of KX-rays of some elements with Z=53-96. (A12). [Data] 485548
- x-ray spectra**
 X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- x-ray spectroscopy**
 X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- K* RESONANCES:**
 See also K-1420 RESONANCES; K-892 RESONANCES
- hadronic particle decay**
 The color-radius interactions, $\text{GAMMA}(D^0 \rightarrow K^*K^-)/\text{GAMMA}(D^0 \rightarrow \pi\pi^-)$ and violations of the $\Delta I = 1/2$ rule. (A21). 489790
- K-CONVERSION COEFFICIENT:**
 See K CONVERSION
- K-1420 RESONANCES:**
 particle production
 Meson-resonance production in p-p interactions at 53-GeV (c.m.) energy. (A22). 468166
- K-25 PLANT:**
 See ORGDP
- K-892 RESONANCES:**
 hadronic particle decay
 Search for high-mass resonances and study of neutral strange particle production in anti p p interactions at 14.75 GeV/c. (A22; Cross sections, rapidity, Feynman scaling, transverse momentum). [Data] 478548
- particle production**
 Neutral particle production from 300 GeV/c proton proton collisions in the Fermilab 15 foot bubble chamber. (A22; Cross sections, transverse distribution). [Data] 486144
 Observation of the kaonic decay of the $\Lambda/\text{sub } c^+$ charmed baryon. (A22; Rates). [Data] 486131
 Y^*K and Y^*K^* production in π^+p interactions at 10.3 GeV/c. (A22). 475673
- KALPAKKAM LMFBR REACTOR:**
 power supplies
 Power supply for control and instrumentation in Fast Breeder Test Reactor. (E36, C52). 463698
- KALPAKKAM-2 REACTOR:**
 reactivity insertions
 Physics design of plutonium boosters. (E34). 480670
- KANGAROO RAT:**
 See RODENTS
- KANSAS:**
 geochemical surveys
 Hydrogeochemical and stream sediment reconnaissance basic data for Wichita NTMS Quadrangle, Kansas. (B31). [Data] 487111
 Hydrogeochemical and stream sediment reconnaissance basic data for Pratt NTMS Quadrangle, Kansas. (B31). [Data] 490805
- seismology**
 Study of the regional tectonics and seismicity of eastern Kansas: summary of project activities and results to the end of the second year, or September 30, 1979. (C52; Nemaha Uplift and related structures). 476728
- tectonics**
 Study of the regional tectonics and seismicity of eastern Kansas: summary of project activities and results to the end of the second year, or September 30, 1979. (C52; Nemaha Uplift and related structures). 476728
- KAOLIN:**
 adsorption
 Consequences of radiation from sorbed transplutonium elements on clays selected for waste isolation. (E52). 492259
- separation processes**
 Soil components that influence the chemical behavior of ^{239}Pu . (B31, B11). 469513
- KAON BEAMS:**
 uses
 Kaons and antiprotons as probes of the nucleus. (E16). 480448

- Physics uses of intense proton beams at 10 to 20 GeV. (E16, A22; Kaon factory utilization). 477039
- KAON MINUS REACTIONS:**
- Hypernuclei. (A22). 468205
- capture
- Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
- charge-exchange reactions
- Kaon inelastic scattering and charge exchange on nuclei. (A33). 478617
- elastic scattering
- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432
- exchange interactions
- Strangeness-exchange and strange nuclei. (A33, A21, A34, A22). 478623
- hypernuclei
- Hypernuclei - why and how. (A22). 493110
- inelastic scattering
- Kaon inelastic scattering and charge exchange on nuclei. (A33). 478617
- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432
- nuclear reaction yield
- Yield of doubly charged particles from sigmasub(K⁻) stars in nuclear photoemulsion. (A34). 468573
- KAON MINUS-NEUTRON INTERACTION:**
- charge-exchange interactions
- Tensor exchange amplitudes in K⁺-N charge exchange reactions. (A21). 489892
- KAON MINUS-PROTON INTERACTIONS:**
- antilambda particles
- Lambda and antiLambda polarization in K⁺-P interactions at 32 GeV/c. (A22). [Data] 464891
- charge-exchange interactions
- Construction of tensor exchange amplitudes in KN and anti KN CEX reactions. (A21). 483640
- Tensor exchange amplitudes in K⁺-N charge exchange reactions. (A21). 489892
- cross sections
- Backward elastic K⁻p scattering below 1 GeV/c. Annual progress report, March 1, 1978 - February 28, 1979. (A22; Momentum dependence). 464909
- Cross-sections for charged channels in K bar P interactions between 1470 and 1550 MeV C.M. energy. (A12). 488819
- d-1285 resonances
- Production and decay properties of the D(1285) meson in K⁻p interactions at 4.2 GeV/c. (A22). 483696
- differential cross sections
- Convergent polynomial expansion and scaling in diffraction scattering. II. Convergent polynomial expansion for all energies, slope parameters, and scaling in pp, p-barp, K⁺p, and pi⁺p scattering. (A21). [Data] 464841
- diffraction models
- Single and double diffractive dissociation in K⁻p interactions at 32 GeV/c. (A22). 483694
- elastic scattering
- Backward elastic K⁻p scattering below 1 GeV/c. Annual progress report, March 1, 1978 - February 28, 1979. (A22; Momentum dependence). 464909
- exchange degeneracy
- Experimental test of exchange degeneracy in hypercharge exchange reactions. (A21; Helicity-flip and nonflip amplitudes, angular distribution, quark model). 472027
- four-body problem
- K⁻p → Σ⁺π⁺π⁰ and K⁻p → Σ⁺π⁺π⁻ reactions between 2 and 2.5 GeV. (A22). 460236
- hypercharge
- Experimental test of exchange degeneracy in hypercharge exchange reactions. (A21; Helicity-flip and nonflip amplitudes, angular distribution, quark model). 472027
- inclusive interactions
- anti Lambda production in K⁻p interactions at 32 GeV/c. (A22). [Data] 481436
- Study of inclusive reactions K⁻p → K-bar⁰ + X and K⁻p → Λ⁰ + X at 6.5 GeV/c. (A22). 489938
- A study of inclusive Λ, Σ⁰ and Σ(1385) production in K⁻p interactions at 8.25 GeV/c. (A22). 468164
- lambda particles
- Lambda and antiLambda polarization in K⁻-P interactions at 32 GeV/c. (A22). [Data] 464891
- lambda-1520 resonances
- The reactions K⁺+p → pseudoscalar meson + Λ(1520) at 4.2 GeV/c. (A22). 475651
- particle production
- Amplitude analysis of Y*(1385) production in the line-reversed reactions: π⁺p → K⁺Y*(1385) and K⁺p → π⁺Y*(1385) at 7 and 11.5 GeV/c. (A22; Sigma(1385) → ΛπΛ → ππ, angular distribution, helicity-flip and non-flip). 475649
- A study of inclusive Λ, Σ⁰ and Σ(1385) production in K⁻p interactions at 8.25 GeV/c. (A22). 468164
- scattering amplitudes
- Convergent polynomial expansion and scaling in diffraction scattering. II. Convergent polynomial expansion for all energies, slope parameters, and scaling in pp, p-barp, K⁺p, and π⁺p scattering. (A21). [Data] 464841
- Description of high energy elastic forward scattering amplitudes by the uniformization method. (A21). 468083
- three-body problem
- K⁻p → Σ⁺π⁺π⁰ and K⁻p → Σ⁺π⁺π⁻ reactions between 2 and 2.5 GeV. (A22). 460236
- total cross sections
- Anti KN system. (E16, A21). 482638
- Chanel cross sections of K⁻P, reactions from 1.934 to 2.516 GeV/c. (A22). 462581
- Effective radius and total cross sections of hadron-hadron interactions of elementary particles. (A21). 464780
- KAON NEUTRAL REACTIONS:**
- coherent scattering
- Precise coherent K/sub S/ regeneration amplitudes for C, Al, Cu, Sn, and Pb nuclei from 20 to 140 GeV/c and their interpretation. (A22). 481438
- total cross sections
- K/sub L/-nucleus total cross sections between 30 and 150 GeV: Quantitative evidence for inelastic screening. (A22). 481437
- KAON NEUTRAL-NEUTRON INTERACTIO:**
- total cross sections
- Anti KN system. (E16, A21). 482638
- KAON NEUTRAL-PROTON INTERACTIO:**
- differential cross sections
- A measurement of the K⁰sub(L)p → K⁰sub(S)p reaction between 4 and 14 GeV/c in the range 1 < or = t < or = 2 GeV². (A21). [Data] 493051
- Reactions K/sub L/p → K/sub S/p, Λπ⁺ and Σ⁰π⁺ at 550 MeV/c. (A22; Partial wave ambiguities, Legendre polynomial). 460242
- scattering amplitudes
- Reactions K/sub L/p → K/sub S/p, Λπ⁺ and Σ⁰π⁺ at 550 MeV/c. (A22; Partial wave ambiguities, Legendre polynomial). 460242
- KAON PLUS REACTIONS:**
- absorption
- Kaons and antiprotons as probes of the nucleus. (A22). 475667
- charge-exchange reactions
- Kaon inelastic scattering and charge exchange on nuclei. (A33). 478617
- Nuclear structure and the single charge exchange. (A33; 150 to 600 MeV). [Data] 472193
- deep inelastic scattering
- Kaons and antiprotons as probes of the nucleus. (A22). 475667
- elastic scattering
- Kaons and antiprotons as probes of the nucleus. (A22). 475667
- Kaons and antiprotons as probes of the nucleus. (E16). 480448
- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432
- inelastic scattering
- Kaon inelastic scattering and charge exchange on nuclei. (A33). 478617
- Kaons and antiprotons as probes of the nucleus. (E16). 480448
- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432
- pair production
- Production of muon pairs by 225-GeV/c π⁺, K⁺, p⁺ beams on nuclear targets. (A22). 478512
- total cross sections
- Kaons and antiprotons as probes of the nucleus. (A22). 475667
- KAON PLUS-NEUTRON INTERACTIONS:**
- charge-exchange interactions
- Construction of tensor exchange amplitudes in KN and anti KN CEX reactions. (A21). 483640
- Polarization measurements in K⁺n charge exchange at 6 and 12 GeV/c. (A22, E41). 489947
- Tensor exchange amplitudes in K⁺-N charge exchange reactions. (A21). 489892
- elastic scattering
- KN partial-wave analysis and Z⁰ resonances. (A21; Cross sections, polarization, review). 464816
- Measurement of the neutron polarization in K⁺n interactions at 800 MeV/c incident K⁺ laboratory momentum. (A22; Cross sections). 468207
- multiple scattering
- Apparatus for two-body scattering experiments at 6 and 12 GeV/c with the CERN polarized deuteron target. (E41, A22). 470828
- partial waves
- KN partial-wave analysis and Z⁰ resonances. (A21; Cross sections, polarization, review). 464816
- polarization
- Polarization measurements in K⁺n charge exchange at 6 and 12 GeV/c. (A22, E41). 489947
- KAON PLUS-PROTON INTERACTIONS:**
- A high statistics spectrometer for the study of energy dependence of resonance production. (A22). [Data] 489963
- antilambda particles
- Lambda and antiLambda polarization in K⁻-P interactions at 32 GeV/c. (A22). [Data] 464891
- charge-exchange interactions
- Polarization measurements in K⁺n charge exchange at 6 and 12 GeV/c. (A22, E41). 489947
- Tensor exchange amplitudes in K⁺-N charge exchange reactions. (A21). 489892
- differential cross sections
- Convergent polynomial expansion and scaling in diffraction scattering. II. Convergent polynomial expansion for all energies, slope parameters, and scaling in pp, p-barp, K⁺p, and π⁺p scattering. (A21). [Data] 464841
- elastic scattering
- KN partial-wave analysis and Z⁰ resonances. (A21; Cross sections, polarization, review). 464816
- Polarization measurements in π⁺p and K⁺p elastic scattering at 6 and 12 GeV/c with the CERN polarized deuteron target. (A22).

- 483691
- exclusive interactions**
- Transverse-momentum correlations and impact-parameter bounds for exclusive K^+p reactions at 32 GeV/c. (A22). 475687
- impact parameter**
- Energy and effective mass dependence of impact parameter bounds in the reaction $K^+p \rightarrow K^+\pi^+\pi^-$ from 2.7 to 32 GeV/c. (A22). [Data] 475686
- inclusive interactions**
- Study of the inclusive $K^+p \rightarrow pX$ and $K^+p \rightarrow pK^0X$ at 32 GeV/c. (A22). 475678
- inelastic scattering**
- U. Mass. spin refrigerator and strange-particle physics with the Brookhaven multiparticle spectrometer. (A22, E16). 489926
- lambda particles**
- Λ and anti- Λ polarization in K^+p interactions at 32 GeV/c. (A22). [Data] 464891
- partial waves**
- Comment on Z_1^* (1800) and spin-rotation parameter measurements. (A22). 489962
- KN partial-wave analysis and Z^* resonances. (A21; Cross sections, polarization, review). 464816
- polarization**
- Polarization measurements in K^+n charge exchange at 6 and 12 GeV/c. (A22, E41). 489947
- polarized targets**
- Polarization measurements in π^+p and K^+p elastic scattering at 6 and 12 GeV/c with the CERN polarized deuteron target. (A22). 483691
- resonance scattering**
- Comment on Z_1^* (1800) and spin-rotation parameter measurements. (A22). 489962
- scattering amplitudes**
- Convergent polynomial expansion and scaling in diffraction scattering. II. Convergent polynomial expansion for all energies, slope parameters, and scaling in pp, p-barp, K^+p , and π^+p scattering. (A21). [Data] 464841
- total cross sections**
- Effective radius and total cross sections of hadron-hadron interactions of elementary particles. (A21). 464780
- transverse momentum**
- Transverse-momentum correlations and impact-parameter bounds for exclusive K^+p reactions at 32 GeV/c. (A22). 475687
- KAON REACTIONS:**
See also KAON MINUS REACTIONS; KAON NEUTRAL REACTIONS; KAON PLUS REACTIONS
- Kaon interactions with very light nuclei. (A22, A34; Review, cross sections). [Data] 478549
- cross sections**
- K^+d interactions in the energy range between 1500 and 1600 MeV. (A22; Angular distribution). 468181
- differential cross sections**
- Production of muon pairs in the continuum region by 39.5 GeV π^+ , K^+ , p and anti-p beams incident on a copper target. (A22). [Data] 489935
- diffraction models**
- Diffraction dissociation $n \rightarrow \pi^+\pi^0$ induced by 12-GeV/c K^- mesons. (A22). [Data] 464907
- elastic scattering**
- Kaon-nucleus scattering and kaon-nuclear coupling constants. (A21). [Data] 493054
- exchange interactions**
- Interaction of strange particles in nuclei. (A33). 464966
- final-state interactions**
- K^+d interactions in the energy range between 1500 and 1600 MeV. (A22; Angular distribution). 468181
- inclusive interactions**
- Multiparticle and inclusive reactions. (A21, A22). 460192
- optical models**
- On the kaon-nucleus optical potential at low energy. (A33). 468265
- research programs**
- Interaction of pions and kaons with nucleons and nuclei. (A34). 483863
- reviews**
- Present and future prospects for kaon physics. (A22, A21). 475668
- total cross sections**
- Glauber model amplitudes for forward K^+C elastic scattering in the intermediate energy region. (A21). 481372
- KAON-NEUTRON INTERACTIONS:**
See also KAON MINUS-NEUTRON INTERACTION; KAON NEUTRAL-NEUTRON INTERACTION; KAON PLUS-NEUTRON INTERACTIONS
- KAON-NUCLEON INTERACTIONS:**
See also KAON MINUS-NEUTRON INTERACTION; KAON MINUS-PROTON INTERACTIONS; KAON NEUTRAL-NEUTRON INTERACTION; KAON NEUTRAL-PROTON INTERACTION; KAON PLUS-NEUTRON INTERACTIONS; KAON PLUS-PROTON INTERACTIONS
- coherent scattering**
- Precise coherent K^+S regeneration amplitudes for C, Al, Cu, Sn, and Pb nuclei from 20 to 140 GeV/c and their interpretation. (A22). 481438
- elastic scattering**
- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432
- inelastic scattering**
- Properties of the elementary KN and anti KN interactions. (A21; Reviews, scattering amplitudes, phase shift, isospin). 478432
- lambda particles**
- Hypernuclear spectroscopy. (A33). 465040
- rescattering**
- Absorptive cuts in forward high-energy collisions. (A21). [Data] 464759
- reviews**
- Present and future prospects for kaon physics. (A22, A21). 475668
- scattering amplitudes**
- Absorptive cuts in forward high-energy collisions. (A21). [Data] 464759
- t channel**
- t-channel couplings in kaon-nucleon scattering. (A21). 475532
- KAON-PROTON INTERACTIONS:**
See also KAON MINUS-PROTON INTERACTIONS; KAON NEUTRAL-PROTON INTERACTION; KAON PLUS-PROTON INTERACTIONS
- Inclusive reactions in the central region. (A21). 464863
- eikonal approximation**
- Reactions $K^+p \rightarrow \eta\Lambda$ and $K^+p \rightarrow \eta'\Lambda$ in quazieikonal model. (A21). 475516
- elastic scattering**
- Relations between reggeon and photon couplings. (A21). 489906
- particle production**
- Coherent K^+S regeneration on protons from 30 to 130 GeV/c. (A22). [Data] 464884
- scattering amplitudes**
- Relations between reggeon and photon couplings. (A21). 489906
- total cross sections**
- Study on a new tabulation of kaon-proton total cross sections. (A22; Errors, dispersion relations 0.245 to 6.0 GeV/c). 468174
- KAONIC ATOMS:**
See also ANTIKAONS NEUTRAL; KAONS MINUS; KAONS NEUTRAL; KAONS NEUTRAL LONG-LIVED; KAONS NEUTRAL SHORT-LIVED; KAONS PLUS
- absorption**
- Absorption in kaonic and antiprotonic atoms (including protonium). (A11). 483094
- optical models**
- The kaon-nucleus optical potential for kaonic atoms. (A12). [Data] 463940
- x-ray spectra**
- Measurements of the kaonic hydrogen (K^+H) X-ray spectrum. (A12). 463935
- KAONS:**
See also ANTIKAONS NEUTRAL; KAONS MINUS; KAONS NEUTRAL; KAONS NEUTRAL LONG-LIVED; KAONS NEUTRAL SHORT-LIVED; KAONS PLUS
- flux density**
- Cosmic ray muons and their associated shower particles underwater. (A22, A15; Depth dependence). 468153
- form factors**
- Quark-antiquark systems combined by the Coulomb-type attractive force and the kaon form factor. (A21). 462565
- particle decay**
- Weak interaction symmetry structure and nonleptonic decays of kaons. (A21; $K^+ \rightarrow \pi^+\pi^0$; $K_{\text{sub}}(s)\text{sup}(0) \rightarrow \pi_{\text{sub}}(0)\pi_{\text{sub}}(0)$; $K_{\text{sub}}(s)\text{sup}(0) \rightarrow \pi_{\text{sub}}(+)\pi_{\text{sub}}(-)\pi_{\text{sub}}(0)$; $K^+ \rightarrow \pi^+\pi^0$). 468122
- particle production**
- Cosmic ray muons and their associated shower particles underwater. (A22, A15; Depth dependence). 468153
- Production of hadrons at large transverse momentum in 200-, 300-, and 400-GeV p-p and p-nucleus collisions. (A22). [Data] 464877
- Quasielastic and inelastic rescattering as a source of cumulative particle production on a deuteron. (A33, A21). 468283
- particle radii**
- Radii of the pions and the kaons. (A21). 489756
- semileptonic decay**
- New, generalized Cabbibo fit and application to quark mixing angles in the sequential Weinberg-Salam model. (A21). 468138
- weak hadronic decay**
- Weak hadronic decays: $K \rightarrow 2\pi$ and $K \rightarrow 3\pi$. (A22). 486132
- KAONS MINUS:**
See also ANTIKAONS NEUTRAL; KAONS NEUTRAL LONG-LIVED; KAONS NEUTRAL SHORT-LIVED
- capture**
- Absorption of mesons by atomic nuclei. (A33, A12). 486192
- form factors**
- K^+S 1/3 form factors. (A21). [Data] 464752
- mass**
- The charged kaon mass measurement. (A22). 468162
- particle production**
- Production of K^+ and K^- as a test on models for large $p_{\text{sub}}(T)$ hadronic reactions. (A21). 475576
- Relative yields of secondary particles at 70 GeV/c proton interaction with nuclear targets. (A22). 486125
- photoproduction**
- Inclusive photoproduction of protons, kaons, and pions at SLAC energies. (A22; 5 to 19 GeV, cross sections). 472088
- semileptonic decay**
- K^+S 1/3 form factors. (A21). [Data] 464752
- KAONS NEUTRAL:**
See also ANTIKAONS NEUTRAL; KAONS NEUTRAL LONG-LIVED; KAONS NEUTRAL SHORT-LIVED
- mass difference**
- Adding a horizontal gauge symmetry to the Weinberg-Salam model: An eight-quark model. (A21, A11). 486085
- Bounds on quark mixing angles in the standard six-quark model. (A21). 489881
- Constraints on weak-current angles of the six-quark model from the K^0-K^0 system. (B33, A12). 490838
- K^0 bold-arrow-left-right K^0 transition amplitude in the MIT bag model. (A21, A11). 486099

- particle production**
Neutral particle production from 300 GeV/c proton proton collisions in the Fermilab 15 foot bubble chamber. (A22; Cross sections, transverse distribution). [Data] 486144
Study on inclusive distributions of Λ^0 and K_s^0 particles produced in πp interactions at 5 GeV/c. (A22). 464875
- proton-antiproton interactions**
Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 475657
Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 468168
- transition amplitudes**
 K^0 bold-arrow-left-right $K\text{-bar}^0$ transition amplitude in the MIT bag model. (A21, A11). 486099
- KAONS NEUTRAL LONG-LIVED:**
hadronic particle decay
Reactions $K/\text{sub } L/\text{p} \rightarrow K/\text{sub } s/\text{p}, \Lambda\pi^+$ and $\Sigma^0\pi^+$ at 550 MeV/c. (A22; Partial wave ambiguities, Legendre polynomial). 460242
leptonic decay
Axial vector anomaly in $K/\text{sub } L/$ and related decays. (A21; Weak and electromagnetic interaction gauge models, SU-2 groups, SU-3 groups, SU-4 group, symmetry breaking, U-4 group). 468061
Charmed quark. (A21; four-flavor quark model, GIM charm model). 486046
Measurement of the decay rate for the process $K^0/\text{sub } L/ \rightarrow \mu^+\mu^-$. (A22). 486154
mass difference
Axial vector anomaly in $K/\text{sub } L/$ and related decays. (A21; Weak and electromagnetic interaction gauge models, SU-2 groups, SU-3 groups, SU-4 group, symmetry breaking, U-4 group). 468061
particle decay
Analysis of T-violation without assumed CPT. (A21). 493046
Estimation of $\pi\text{-}\mu$ atomic beam intensities at high energy accelerators. (E16). 466534
semileptonic decay
Detection of $\pi\text{-}\mu$ Coulomb bound states. (A12, A22). 477723
weak particle decay
Measurement of the $K/\text{sub } L/ \rightarrow \pi^+\pi^-$ branching ratio. (A22; Branching ratio; CP violation). [Data] 478554
- KAONS NEUTRAL SHORT-LIVED:**
Resonance and neutral particle production in high energy $\pi\pi$ interactions. (A22; 360 GeV/c, cross sections, mechanisms). 468189
- electroproduction**
Recent results on e^+e^- annihilation from PLUTO at DORIS. (A22; Preliminary results 3.60 to 5.0 GeV). 475680
gamma decay
 $K_L \rightarrow \gamma\gamma$ decay rate and vector-meson-exchange contributions. (A21). 475637
mass difference
Axial vector anomaly in $K/\text{sub } L/$ and related decays. (A21; Weak and electromagnetic interaction gauge models, SU-2 groups, SU-3 groups, SU-4 group, symmetry breaking, U-4 group). 468061
particle decay
Analysis of T-violation without assumed CPT. (A21). 493046
 $K^0/\text{sub}(S)$ decays and Lorentz invariance. (A21). 493047
- particle production**
Coherent $K/\text{sub } S/$ regeneration on protons from 30 to 130 GeV/c. (A22). [Data] 464884
Inclusive production of $K^0/\text{sub}(S)$, Λ and anti Λ in anti pp interactions at 3.6 GeV/c. (A22). 472070
Neutral strange particle production from nuclear targets by 300 GeV protons. (A22; Cross sections, Lorentz invariance). [Data] 478567
Search for high-mass resonances and study of neutral strange particle production in anti p p interactions at 14.75 GeV/c. (A22; Cross sections, rapidity, Feynman scaling, transverse momentum). [Data] 478548
- particle rapidity**
Rapidity correlations of $K^0/\text{sub } S/K^0/\text{sub } S/$ pairs and the compensation of strangeness on the quark level in multiparticle production. (A21). 464837
polarization
Polarization measurements in $K^+\text{n}$ charge exchange at 6 and 12 GeV/c. (A22, E41). 489947
- KAONS PLUS:**
form factors
 $K/\text{sub } 1/3$ form factors. (A21). [Data] 464752
leptonic decay
Measurement of the form factors in $K^0/\text{sub } \mu^3/$ meson decay. (A21; Dalitz plot, T invariance). 460218
mass
The charged kaon mass measurement. (A22). 468162
nuclear reaction yield
Search for long lived heavy particles and the production of anti-nuclei by 400 GeV protons. (A22; Cross sections, relative rates). [Data] 475665
- particle decay**
An experimental investigation of the radiative structure decay $K^+ \rightarrow e^+\gamma\gamma$. (A22). 468188
- particle production**
Production of K^+ and K^- as a test on models for large $p_{\text{sub}}(T)$ hadronic reactions. (A21). 475576
Relative yields of secondary particles at 70 GeV/c proton interaction with nuclear targets. (A22). 486125
- photoproduction**
Inclusive photoproduction of protons, kaons, and pions at SLAC energies. (A22; 5 to 19 GeV, cross sections). 472088
- semileptonic decay**
 $K/\text{sub } 1/3$ form factors. (A21). [Data] 464752
- KAONS 1:**
See KAONS NEUTRAL SHORT-LIVED
- KAONS 2:**
See KAONS NEUTRAL LONG-LIVED
- KAPITZA RESISTANCE:**
annealing
The effect of heat treatment and impurities on the Kapitza resistance of copper below 0.2 K. (A17). 462524
helium 3
Transport properties between helium and CMN in the mK range. (A17). 462503
temperature measurement
Dynamic measurement of the Kapitza resistance. (A17). 467990
ultralow temperature
Transport properties between helium and CMN in the mK range. (A17). 462503
- KAPL:**
chemical effluents
Knolls Atomic Power Laboratory annual environmental monitoring report. Calendar year 1978. (B33, C22, C52, C21). [Data] 487151
radioactive effluents
Knolls Atomic Power Laboratory annual environmental monitoring report. Calendar year 1978. (B33, C22, C52, C21). [Data] 487151
- KARLSRUHE (KERNFORSCHUNGSZENTRUM KARLSRUH)**
See KERNFORSCHUNGSZENTRUM KARLSRUH
- KARLSRUHE RESEARCH R. FR-2:**
See FR-2 REACTOR
- KAWASAKI-HITACHI TRAINING REAC:**
See HTR REACTOR
- KEK SYNCHROTRON:**
(Japan National Laboratory for High Energy Physics Synchrotron)
beam transport
Computer control of 500 MeV beam transport line at KEK, (1). (E16). 491611
Computer control of 500 MeV beam transport line at KEK, (3). (E16). 491623
Computer control of 500 MeV beam transport line at KEK, (2). (E16). 491563
control systems
Control system of KEK cockcroft-walton generator. (E16). 482633
Inter-cavity phase control system for the KEK booster synchrotron. (E16). 491630
polarized beams
Studies on possibility of accelerating polarized protons at KEK. (E16, A12). 491673
power supplies
Power supply for the KEK proton synchrotron. (E16). 482630
radiation monitors
Activity monitors in KEK and the conversion of ratemeter readings to activity concentration. (C55). 491265
research programs
Present status of KEK. (E16). 480507
rf systems
Computer control system for MR RF. (E16). 491599
stray radiation
Measurement of stray neutron spectra from 8 GeV PS at High Energy Phys. Lab. (C55). [Data] 491230
- KENTUCKY:**
geochemical surveys
Bjersburg 1° x 2° NTMS area, Kentucky, Missouri, Tennessee, and Illinois: data release. Hydrogeochemical and stream sediment reconnaissance. (B31). [Data] 487096
geophysical surveys
Integrated geophysical and geological study of the tectonic framework of the 38th parallel lineament in the vicinity of its intersection with the extension of the New Madrid Fault Zone. (B31). 476406
magnetic surveys
NURE aerial gamma-ray and magnetic reconnaissance survey: Blue Ridge area, Greensboro NJ 17-12, Winston-Salem NJ 17-11, and Johnson City NJ 17-10 Quadrangles. (B31; NURE program). 472825
[Data] 472825
NURE aerial gamma-ray and magnetic reconnaissance survey: Blue Ridge area, Greensboro NJ 17-12, Winston-Salem NJ 17-11, and Johnson City NJ 17-10 Quadrangles. Volume I. Narrative report. (B31). 465778
radioactive waste disposal
Operational experience of the Kentucky radioactive waste disposal site. (E52, C54; Macey Flats). 474254
radiometric surveys
NURE aerial gamma-ray and magnetic reconnaissance survey: Blue Ridge area, Greensboro NJ 17-12, Winston-Salem NJ 17-11, and Johnson City NJ 17-10 Quadrangles. (B31; NURE program). 472825
[Data] 472825
NURE aerial gamma-ray and magnetic reconnaissance survey: Blue Ridge area, Greensboro NJ 17-12, Winston-Salem NJ 17-11, and Johnson City NJ 17-10 Quadrangles. Volume I. Narrative report. (B31). 465778
- KERATIN:**
iron complexes
The action spectra of free radicals produced by the irradiation of keratin containing bound iron(III) ions. (C11). [Data] 472921
- KERMA:**
(Total kinetic energy of charged particles produced by ionizing radiation per unit mass of irradiated material in ergs per gram.)
annihilation
Addendum to 'The partition of kerma to account for bremsstrahlung'. (C55). 476737

| | |
|--|--------|
| bremsstrahlung | |
| Addendum to 'The partition of kerma to account for bremsstrahlung'. (C55). | 476737 |
| The partition of kerma to account for bremsstrahlung. (C55, A32). | 487635 |
| KERNELS: | |
| functionals | |
| Non-uniqueness in writing Schroedinger kernel as a functional integral. (A11). | 477586 |
| KERNELS (FUEL): | |
| See FUEL PELLETS | |
| KERNFORSCHUNGSZENTRUM KARLSRUH: | |
| environmental impacts | |
| 1978 annual report of the safety department. (C52). | 476693 |
| radiation protection | |
| 1978 annual report of the safety department. (C52). | 476693 |
| radioactive effluents | |
| Impact on the environment of tritium releases from the Karlsruhe Nuclear Research Center. (C52). | 491166 |
| work | |
| Progress report on research and development 1978. (F61). | 488530 |
| KERNKRAFTWERK BIBLIS-A: | |
| See BIBLIS REACTOR | |
| KERNKRAFTWERK BIBLIS-B: | |
| See BIBLIS-B REACTOR | |
| KERNKRAFTWERK ISAR: | |
| See ISAR REACTOR | |
| KERNKRAFTWERK OBRIGHEIM: | |
| See OBRIGHEIM REACTOR | |
| KERNKRAFTWERK PHILIPPSBURG-1: | |
| See PHILIPPSBURG-1 REACTOR | |
| KERNKRAFTWERK PHILIPPSBURG-2: | |
| See PHILIPPSBURG-2 REACTOR | |
| KERNKRAFTWERK RWE-BAYERNWERK: | |
| See RWE-BAYERNWERK REACTOR | |
| KERNKRAFTWERK WUERGASSEN: | |
| See WUERGASSEN REACTOR | |
| KERR FIELD: | |
| einstein-maxwell equations | |
| A Kerr-NUT metric and Einstein-Maxwell fields. (A11). | 480970 |
| singularity | |
| Vortical null orbits, repulsive barriers, energy confinement in Kerr metric. (A15). | 489431 |
| tachyons | |
| Energy extraction (a reversible process) from a Kerr source by tachyons. (A15, A11). | 478225 |
| KERR METRIC: | |
| bound state | |
| Bound states in the Kerr metric. (A11). | 467030 |
| field equations | |
| The gravitational perturbations of the Kerr black hole. (A15, A11). | 471783 |
| perturbation theory | |
| The gravitational perturbations of the Kerr black hole. (A15, A11). | 471783 |
| KETONES: | |
| See also ACETONE; ACETOPHENONE; ACETYLACETONE; ALDOSTERONE; ANDROSTENEDIONE; ANDROSTERONE; BENZOPHENONE; CORTICOSTEROIDS; CORTICOSTERONE; ESTRONE; GLUCOCORTICIDS; HYDROCORTISONE; HYDROXY-PREGNENONE; PREDNISOLONE; PREDNISON; PROGESTERONE; TESTOSTERONE; TRIACETONEAMINE-N-OXYL; TA | |
| chemical analysis | |
| New method for the determination of ¹⁴ C radioactivity in ketone bodies. (B11). | 475895 |
| chemical radiation effects | |
| Radiation-induced copolymerization of hexafluoroacetone with 2-methyl-1-pentene. (B14). [Data] | 472552 |
| photochemistry | |
| Electron transfer processes in the photochemistry of β -(dimethylamino)propionophenone. (B12). [Data] | 490340 |
| Selective decomposition of CF ₃ ¹³ COCF ₃ molecules at natural abundance: Multiphoton dissociation at threshold. (B12). | 490351 |
| radiolysis | |
| Use of spin traps for study of γ -radiolysis radical products of carbonyl compounds in liquid phase. (B14). | 479311 |
| spectral shift | |
| Proton, deuterium, and tritium nuclear magnetic resonance of intramolecular hydrogen bonds. Isotope effects and the shape of the potential energy function. (B12). | 460436 |
| KICKSORTERS: | |
| See PULSE ANALYZERS | |
| KIDNEYS: | |
| See also GLOMERULI | |
| acclimation | |
| Neonatal irradiation nephropathy in the growing dog. I. Renal morphological and functional adaptations following neonatal, sublethal, whole-body irradiation. (C14, C31; γ rays; beagles). [Data] | 476574 |
| activation analysis | |
| Critical concentrations of cadmium in human liver and kidney measured by prompt-gamma neutron activation. (B11). [Data] | 478800 |
| arteries | |
| Roentgenologic appearance of fibromuscular dysplasia. (C61). | 473342 |
| biological functions | |
| Radioisotope dynamic methods in the studies of arterial and canalicular "capacity" of the kidneys. (C21). | 469749 |

| | |
|---|--------|
| biological models | |
| Heavy ion beam model for radiobiology. (C11, C55). | 460994 |
| biological radiation effects | |
| Assessment of renal function following irradiation of the intact spleen for Hodgkin disease. (C15, C63, C62, C31; X rays; ^{99m} Tc iron ascorbate DTPA assessment of renal function). | 469683 |
| Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). [Data] | 476568 |
| Extra-renal effects of perinatal irradiation: clinical metabolic studies on beagles with chronic renal failure. (C14; Gamma radiation). [Data] | 479848 |
| Neonatal irradiation nephropathy in the growing dog. I. Renal morphological and functional adaptations following neonatal, sublethal, whole-body irradiation. (C14, C31; γ rays; beagles). [Data] | 476574 |
| Renal function changes associated with aging and ionizing radiation. (C14; Gamma radiation, beagles, ¹³¹ I tracer technique). [Data] | 479844 |
| biomedical radiography | |
| Angiography feasibility in diagnosis of different kidney diseases. (C61). | 480252 |
| Angiotensin effect in the human kidney. (C61). | 470039 |
| The application of transform methods to Hippuran renograms. (C62). | 473481 |
| Displaced renal lobe simulating tumour. (C61). | 473358 |
| Evaluation of solitary renal cystic lesions. (C61). | 470029 |
| Importance of angiographic investigations for the choice of operation method in case of kidney neoplasms. (C61). | 480234 |
| Kidney angiography as the method for medical treatment definition. (C61). | 480244 |
| Magnification renal arteriography. (C61). | 473339 |
| Malignant thymoma with renal metastases. (C61). | 470032 |
| Radioindication of hemodynamics and functional state of parenchyma of the kidneys in stenosis of renal arteries. (C61). | 466378 |
| Relationship between area and function of the kidney in well defined childhood nephropathies. (C61). | 461368 |
| The role of isotope renography in nephrological diagnosis of children. (C45). | 494381 |
| Urgent angiography in kidney closed injuries. (C61). | 480246 |
| blood circulation | |
| The implication of renal cortical blood flow detected by ^{99m} Tc-dimercaptosuccinic acid (DMSA) renal scintigraphy. (C62). | 482376 |
| blood flow | |
| Renal hyperconcentration of ^{99m} Tc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of ^{99m} Tc-HEDP, -DMSA, and -DTPA in rabbits). | 487707 |
| calcium | |
| Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of ^{99m} Tc-pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calcification at these sites). | 470174 |
| carcinomas | |
| Evaluation of solitary renal cystic lesions. (C61). | 470029 |
| cat scanning | |
| Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). | 473408 |
| contrast media | |
| Morphologic sequelae to contrast medium deposits in the kidney. (C61). | 480220 |
| Potential following nephroangiography. III. (C61). | 473355 |
| cuex | |
| AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). | 469787 |
| delayed radiation effects | |
| Injury of urinary tracts following radiation therapy for carcinoma of the cervix. (C15). | 476581 |
| Late effects of unilateral radiation on the mouse kidney. (C14; X ray). | 461045 |
| diseases | |
| The importance of the radioimmunoassay determination of beta-2-microglobulin for the diagnosis of kidney diseases. (C45). | 466266 |
| dose commitments | |
| Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). | 461099 |
| AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). | 469787 |
| Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). | 473060 |
| Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] | 490877 |
| dynamic function studies | |
| Evaluation of isotope nephrograms by the deconvolution method. (C62). | 470101 |
| Quantitative evaluation and imaging of functions using pattern recognition methods. (C62). | 473473 |
| Renal hyperconcentration of ^{99m} Tc-HEDP in experimental acute tubular necrosis. (C62, C21; Comparison of renal distribution of ^{99m} Tc-HEDP, -DMSA, and -DTPA in | |

- rabbits). 487707
- indium 113** 487739
- Radioisotope applications in nephrology. (C62, C61). 482422
- iodine 131** 465873
- Radioisotope applications in nephrology. (C62, C61). 482422
- measuring methods**
- Kidney size in infants and children assessed by area measurement. (C61). 461380
- metastases**
- Malignant thymoma with renal metastases. (C61). 470032
- Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of /sup 99m/Tc-pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calcification at these sites). 470174
- morphological changes**
- Morphologic sequelae to contrast medium deposits in the kidney. (C61). 480220
- neoplasms**
- Angiotensin effect in the human kidney. (C61). 470039
- Roentgeno-radioisotope diagnosis of kidney neoplasms. (C62). 482353
- pathological changes**
- Effects of adrenalectomy, adrenal regeneration, and renal irradiation on blood pressure. (C14; X rays; rats). [Data] 476568
- Urographic and angiographic changes in acute unilateral pyelonephritis. (C61). 476778
- radiation doses**
- Bioassay at uranium mills: a discussion of Nuclear Regulatory Commission regulatory guide 8.22. (C54, C21). [Data] 466353
- radioactivity**
- Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
- Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- radioimmunoassay**
- False positive ⁵¹Cr release tests during post-transplant immunological monitoring due to recipient serum radioactive contamination. (C45). 469881
- radioimmunology**
- Radioimmunological analyses in kidney diseases diagnosis. (C62). 482360
- radioisotope scanning**
- Radioimmunological analyses in kidney diseases diagnosis. (C62). 482360
- Renal and urinary tract studies. (C62). 484732
- Scintiscanning of vena cava inferior in case of kidney neoplasms. (C62). 482428
- radiology**
- Kidney size in infants and children assessed by area measurement. (C61). 461380
- radionuclide kinetics**
- Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- Toward an optimal DTPA therapy for decorporation of actinides: time-dose relationships for plutonium in the dog. I. (C21). 491020
- Zinc absorption and metabolism in animals. (C21; Rats, Calves, ⁶⁵Zn). 473057
- radiopharmaceuticals**
- Obstructive nephropathy: successful evaluation with radionuclides. (C62). [Data] 491307
- A single injection technique for subtraction of blood background in ¹³¹I-hippuran renograms. (C62). 491349
- radiotherapy**
- 6.73 pJ (42 MeV) betatron in postoperative therapy of kidneys with computer-aided optimization of irradiation plans. (C63). 482465
- renal clearance**
- Radioisotope applications in nephrology. (C62, C61). 482422
- scintiscanning**
- Assessment of renal function following irradiation of the intact spleen for Hodgkin disease. (C15, C63, C62, C31; X rays; /sup 99m/Tc iron ascorbate DTPA assessment of renal function). 469683
- A comparison of 3 display methods of assessing renal function. (C45). 469879
- Computerized double-tracer subtraction scanning with Gallium-67 citrate in inflammatory diseases. (C62). 470086
- Diagnostic and prognostic significance of radionuclide investigations with computer data processing in urology. (C62). 494535
- The implication of renal cortical blood flow detected by sup(99m)Tc-dimercaptosuccinic acid (DMSA) renal scintigraphy. (C62). 482376
- Increased perinephric activity in /sup 99m/Tc-DTPA studies of renal transplants. (C62, C21). 487739
- Nuclear medicine in the investigation of the kidneys and heart. Chapter 11. (C62). 487715
- Nuclear medicine, 1978. (C62, C61). 473404
- Radioisotope renogram and sequela of acute renal insufficiency. (C62). 482331
- Radionuclide skeletal survey in neuroblastoma. (C62, C61, C21, C31; /sup 99m/Tc-methylene diphosphonate and pyrophosphate). 487698
- Role of quantitative and dynamic radioactive studies in renal testing. (C45). 463349
- tomography**
- Displaced renal lobe simulating tumour. (C61). 473358
- tracer techniques**
- Radioisotope dynamic methods in the studies of arterial and canalicular "capacity" of the kidneys. (C21). 469749
- Validation of the calculation of the renal impulse response function. An analysis of errors and systematic biases. (C31). 473119
- transplants**
- Increased perinephric activity in /sup 99m/Tc-DTPA studies of renal transplants. (C62, C21). 487739
- Specific suppression of alloimmune responses by antigen. (C11; UV radiation). [Data] 465873
- Total-body irradiation and host reconstitution with stored autologous marrow: an experimental model for the induction of allogeneic unresponsiveness in large mammals. (C14; Dogs). 466076
- volume**
- Relationship between area and function of the kidney in well defined childhood nephropathies. (C61). 461368
- x-ray emission analysis**
- Proton induced X-ray emission analysis of Pima Indian autopsy tissues. (B11). 490298
- KILO AMP BEAM CURRENTS:**
- (From 1000 to 10 exp 6 amp.)
- beam dynamics**
- Self-focusing of a pulsed high-intensity electron beam in a low-pressure gas. (E16). 480425
- KIMBERLITES:**
- isotope dating**
- ⁴⁰Ar/³⁹Ar analyses of phlogopite nodules and phlogopite-bearing peridotites in South African kimberlites. (B31). 460853
- isotope ratio**
- Isotopic composition of strontium in Indian kimberlites. (B11). [Data] 460415
- KINASES (PHOSPHOTRANSFERASES):**
- See PHOSPHOTRANSFERASES
- KINEMATICS (PARTICLE):**
- See PARTICLE KINEMATICS
- KINETICS:**
- See also BIOCHEMICAL REACTION KINETICS; CHEMICAL REACTION KINETICS; NUCLEAR REACTION KINETICS; RADIONUCLIDE KINETICS; REACTION KINETICS; REACTOR KINETICS
- bioassay**
- Pre-operative irradiation and tumor-specific immune response in hypernephroid renal carcinoma. (C15, C63). [Data] 487244
- water**
- Kinetics of whole-body water and bromide space in patients with liver cirrhosis. (C62, C21). 470110
- KINETICS EQUATIONS (REACTOR):**
- See REACTOR KINETICS EQUATIONS
- KINK INSTABILITY:**
- Plasma stability control in a toroidal system by feedback and HF fields. (A14). [Data] 464292
- Stability of tokamaks with elongated cross section. (A14). 489094
- Successor oscillations of internal disruptive instabilities in the PLT tokamak. (A14). 489325
- nonlinear problems**
- Observations of the nonlinear phase of a noncircular cross section toroidal kink instability. (A14). 464238
- shear**
- Dynamic shear stabilization of hydromagnetic instabilities in low-beta plasma column by a frequency near the ion cyclotron frequency. (A14). 467631
- stability**
- Dynamic shear stabilization of hydromagnetic kink instabilities in pinch and/or tokamak plasma through a nonlinear mode coupling. (A14). 478126
- toroidal configuration**
- Observations of the nonlinear phase of a noncircular cross section toroidal kink instability. (A14). 464238
- Study of sigma stability of the internal kink mode in toroidal geometry. (A14). 471722
- KISSLINGER MODEL:**
- See OPTICAL MODELS
- KKR REACTOR:**
- See BRUNSBUETEL REACTOR
- KKI ISAR:**
- See ISAR REACTOR
- KKP-1 PHILIPPSBURG REACTOR:**
- See PHILIPPSBURG-1 REACTOR
- KKP-2 PHILIPPSBURG REACTOR:**
- See PHILIPPSBURG-2 REACTOR
- KLEIN-GORDON EQUATION:**
- Classical limit of Klein-Gordon theory in the coherent-state representation. (A11). 471252
- green function**
- Causality and the propagation of relativistic fields. (A11). 459697
- KLYSTRONS:**
- comparative evaluations**
- Advances in high-power rf amplifiers. (E16). 477072
- modulation**
- Plate modulation of klystron amplifying tube for low hybrid wave resonance heating. (A14). 467652
- KNK-2 REACTOR:**
- irradiation devices**
- Recent KfK work on irradiation techniques for fast reactors. (E35). 461745
- reactor cores**
- KNK II - an experimental power station equipped with a fast core. (E35). 470738
- KNOCK-ON ELECTRONS:**
- See ELECTRONS
- KNOCK-OUT REACTIONS:**
- Approach to equilibrium based on microscopic models of nuclear collisions. (A33, A22; Yield ratios, differential cross sections). 468330

- cluster model**
Cluster formation in scatterings of fast electrons by nuclei. (A33). 493263
- electron reactions**
Cluster formation in scatterings of fast electrons by nuclei. (A33). 493263
- nuclear reaction kinetics**
High momentum nucleons from relativistic nuclear collisions. (A33). 475738
On the relation between durations and cross sections of three-particle nuclear reactions in the outlet channel and on the "surrounding" scattering effect. (A33). 493271
- strong-absorption model**
Polarization effects in knock-out reactions and strong absorption. (A33). 486247
- KNOLLS ATOMIC POWER LABORATORY:**
See KAPL
- KNUDSEN EFFUSION:**
See KNUDSEN FLOW
- KNUDSEN FLOW:**
monte carlo method
Monte Carlo functional expansion calculation of free molecular flows. (A13, A31). 489041
- KNUDSEN NUMBER:**
See KNUDSEN FLOW
- KOEBERG-1 REACTOR:**
Great deal achieved at Cape's nuclear island. (E32). 482753
Koeberg without tears. (E32; Planning and construction of the Koeberg-1 reactor). 482759
- cooling**
Sea water for cooling Koeberg. (E32). 470654
- harbors**
Sea water for cooling Koeberg. (E32). 470654
- KOREA (SOUTH):**
See REPUBLIC OF KOREA
- KORTEWEG-DE VRIES EQUATION:**
group theory
Group-theoretical interpretation of the Korteweg-de Vries type equations. (A11). 477585
Lie symmetries in differential equations. (A11). 485356
- integral calculus**
A class of completely integrable mechanical systems related to the Korteweg-de Vries and Schroedinger equation. (A11). 462068
- inverse scattering problem**
On the inverse scattering transform, the cylindrical Korteweg-de Vries equation and similarity solutions. (A11). 488640
Prolongation structure techniques for the new hierarchy of Korteweg-de Vries equations. (A11). 477611
- lie groups**
Lie symmetries in differential equations. (A11). 485356
- solitons**
Hirota's method of solving soliton-type equations. (A11). 477599
- KOSMOS SATELLITES:**
fallout
Estimating the fallout on Great Slave Lake from Cosmos-954. (B33, B32). 472871
- KOVAR:**
texture
Regularities of developing rolling texture in kovar. (B22, B21). 493929
- KRB II-B REACTOR:**
See GUNDEMNINGEN-2 REACTOR
- KRB REACTOR:**
See RWE-BAYERNWERK REACTOR
- KRYPTON:**
Development of a cryogenic krypton-separation system for the offgas of reprocessing plants. (E51, B16). 480857
Reference facility descriptions for iodine, carbon-14 and krypton radioactive gaseous wastes. Final report. (B16, E51). 479330
- absorption spectra**
Ultraviolet absorption by diatomic rare gas ions in E-beam excited plasmas. (A14). [Data] 464511
- adsorption**
ALFA-MEC 6E an instrument for measuring surface area with Kr as adsorption gas. (E42). 480798
Experimental determination of fission gas adsorption coefficients. (E51). 480845
Krypton adsorption in liquid CO₂ (KALC): effects of the minor components N₂, CO, and Xe. (E51, B16). 461918
- atom-atom collisions**
Collisional depolarization of argon 2p levels selectively excited in a discharge by means of a tunable laser. (A12). 471341
Collisions of halogen (²P) and rare gas (¹S) atoms. (A12; Differential cross sections, elastic model, coupling potential energy, L-S coupling, multiplets). [Data] 477708
Crossed molecular beam studies on the interaction potentials for F(²P) + Ne, Ar, Kr(¹S). (A12). [Data] 463942
Energetic binary collisions in rare gas plasmas. (A12). 474648
Experimental determination of the Cs(7S)-rare-gas potential energy curves and of the 6S-7S collision-induced oscillator strengths. (A12). [Data] 474653
Measurement of the U-Kr momentum transfer cross section using crossed molecular beams. (A12). 467315
Temperature effect on the collision-induced emission of S(¹S) with He, Ar, N₂, H₂, Kr, and Xe. (A12). 485408
Ultraviolet radiation produced in low-energy Ar + Ar and Kr + Kr collisions. (A12). 474650
- atom-molecule collisions**
Differential elastic scattering of CCl₄ by Kr. (A12). 467167
- breakdown**
Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
- charged-particle transport**
Total electron-loss cross sections and absolute charge state yields of 20-MeV Fe ions transmitted through gaseous targets. (A32). 475696
- correlations**
Correlation diagram of Kr-Ar⁺ heteronuclear system. Interpretation of quasi-molecular Auger spectra. (A12). 474586
- cosmochemistry**
Predicted versus observed cosmic-ray-produced noble gases in lunar samples: improved Kr production ratios. (A15, A33; From excitation functions for proton spallation of Rb, Sr, Y, Zr at 10 MeV to 10 GeV). 492975
- diffusion**
Mound Facility activities in chemical and physical research: July - December 1978. (B12, D13). 476032
- electron capture**
Modified binary-encounter calculations for electron capture from noble-gas atoms by He⁺ ions. (A12). 488859
Modified binary-encounter calculations for electron capture from noble-gas atoms by protons. (A12). 488891
- electron collisions**
Average energy expended per ion pair, exciton enhanced ionization (Jesse effect), electron drift velocity, average electron energy and scintillation in rare gas liquids. (A12). 467190
- electron-atom collisions**
Total cross sections for electron scattering by Ne, Ar, Kr and Xe. (A12). 462123
- electron-molecule collisions**
Electron-impact ionization of Ar₂, ArKr, Kr₂, KrXe, and Xe₂. (A12). 488825
- energy levels**
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- europium**
Phonon sidebands (Stokes and anti-Stokes) in the optical spectra of rare earth atoms in rare gas matrices. (A12). 459750
- fission products**
Evaluated neutron cross sections and resonance integrals of the fission products from Z=32-37. (A33). [Data] 493274
- fluorescence**
An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- hyperfine structure**
Anisotropic hyperfine interactions of rare-gas nuclei near trapped hydrogen atoms. (A12). 464048
- interatomic forces**
H atom-rare gas interaction potentials from an electron gas model. (A12). 459719
An improved potential for krypton. (A12). 488751
- ion-atom collisions**
Impact-parameter dependence of K-vacancy production in Cusup(q+)-Kr collisions. (A12). [Data] 483171
Multiple electron loss cross sections for heavy ions incident on various atomic and molecular gases. (A12; Differential and total cross sections, charge exchange, 20 MeV). 459754
Outer-shell excitations of Zn II levels in Zn-He, Ne, Ar, Kr collisions. (A12). 488748
Projectile Auger spectra of gas- and foil-excited oxygen ions at MeV energies. (A12). 463956
Selected topics from the theory of electron-atom and atom-atom collisions. (A12). 459756
Technical progress report, October 1, 1977 - September 30, 1978. (A12). [Data] 474681
- ionization**
Measurement of the wavelength dependence on the threshold of laser-induced gas breakdown. (A12). 462104
- k shell**
An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- molecule collisions**
Classical perturbation theory of good action-angle variables. Applications to semiclassical eigenvalues and to collisional energy transfer in polyatomic molecules. (B12). 486658
- oscillator strengths**
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
- photoionization**
Multiple photoionisation in the rare gases from threshold to 280 eV. (A12). 492535
Studies in the electronic structure of matter. (A12, A13, B24). [Data] 474627
- proton reactions**
Nuclear fragment emission in high-energy p-Xe and p-Kr collisions and a description of their production mechanism. (A34). 468483
- radiation monitoring**
Methods evaluation for the continuous monitoring of carbon-14, krypton-85, and iodine-129 in nuclear fuel reprocessing and waste solidification facility off-gas. (B16, C52, E50). 472574
- samarium**
Phonon sidebands (Stokes and anti-Stokes) in the optical spectra of rare earth atoms in rare gas matrices. (A12). 459750
- scattering lengths**
Measurement of coherent neutron scattering lengths of gases. (A12). [Data] 483181
- separation processes**
Characteristics of separation cell with two kinds of membrane differing in gas permeability tendency. (B12, E51). [Data] 476047

- Radioactive rare gas separation performance of a two-unit series-type separation cell. (D13). 466447
- shock heating**
- Measurements of emission coefficient for continuum radiation from shock-treated krypton plasmas. (A14). 489144
- townsend discharge**
- Experimental and theoretical study of the electron cascade induced in a gas by laser light. (A12). 471360
- triplets**
- Evidence for a triplet state of the self-trapped exciton states in liquid argon, krypton and xenon. (A12). [Data] 474609
- KRYPTON COMPOUNDS:**
- chemical preparation**
- Method of producing radioactive kryptonates of amalgams. (B13). 479090
- decomposition**
- Radioactive amalgam kryptonates. 2. (B13). 486701
- impregnation**
- Method of preparing papers impregnated with radioactive kryptonates. (B13). 479118
- KRYPTON IONS:**
- energy-level transitions**
- Oscillator strengths for some D-F transitions in the Mg sequence. (A10). [Data] 463868
- Wavelengths and oscillator strengths of transitions in Kr XXXIII and Kr XXXIV. (A12; Preliminary results). 459725
- ion-atom collisions**
- Symmetric resonance double charge transfer in $Kr^{++} + Kr$, and $Xe^{++} + Xe$. (A12). 474639
- X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- ion-molecule collisions**
- Charge changing cross sections for heavy ions at energies to 8.5 MeV/amu. (A12; Preliminary cross sections, electron pickup and loss, 3.4 to 8.5 MeV/amu). [Data] 477695
- sputtering**
- Structural and compositional changes in ion-bombarded Ta_2O_5 . (A13). 459816
- x-ray spectra**
- Classification of x-ray spectra of 2-3 transitions in the Ne-like and Na-like isoelectronic sequences of the elements from krypton to molybdenum. (A14, A12). [Data] 462323
- KRYPTON ISOTOPES:**
- See also KRYPTON 76; KRYPTON 77; KRYPTON 78; KRYPTON 79; KRYPTON 81; KRYPTON 82; KRYPTON 83; KRYPTON 84; KRYPTON 85; KRYPTON 86; KRYPTON 90
- isotope ratio**
- Iodine-129 in thyroids and tellurium isotopes in meteorites by neutron activation analysis. (C21, A15). [Data] 461082
- meteorites**
- Isotopes of tellurium, xenon and krypton in Allende meteorite retain record of nucleosynthesis. (A15). [Data] 481243
- KRYPTON 76:**
- electron capture decay**
- Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444
- isotope production**
- Excitation functions for the production of ^{76}Kr and ^{77}Kr . (A34, D13). [Data] 468502
- Production of ^{76}Kr and ^{77}Kr . (A34, D13). 490188
- KRYPTON 77:**
- beta-plus decay**
- Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444
- electron capture decay**
- Hot atom chemistry of ^{76}Br and ^{77}Br . (B13). 490444
- energy levels**
- Spins and parities of low-lying states in ^{77}Kr from the $^{78}Kr(d, vector, t)^{77}Kr$ reaction. (A34; differential cross sections, 15.95 MeV, cross sections, vector analyzing powers). [Data] 472241
- excitation functions**
- Simple production of ^{77}Br and ^{123}I and their use in the labelling of $[^{77}Br]BrUdR$ and $[^{123}I]IUdR$. (D13). [Data] 470232
- ground states**
- Spins and parities of low-lying states in ^{77}Kr from the $^{78}Kr(d(pol), t)^{77}Kr$ reaction. (A34). 483852
- isotope production**
- Excitation functions for the production of ^{76}Kr and ^{77}Kr . (A34, D13). [Data] 468502
- Production of ^{76}Kr and ^{77}Kr . (A34, D13). 490188
- nuclear reaction yield**
- Simple production of ^{77}Br and ^{123}I and their use in the labelling of $[^{77}Br]BrUdR$ and $[^{123}I]IUdR$. (D13). [Data] 470232
- KRYPTON 78:**
- energy-level transitions**
- Band structure of ^{78}Kr . (A34). [Data] 490178
- lifetime**
- Band structure of ^{78}Kr . (A34). [Data] 490178
- KRYPTON 78 TARGET:**
- alpha reactions**
- High spin states of neutrondeficient odd Sr- and Zr-isotopes. (A34). 478691
- deuteron reactions**
- Spins and parities of low-lying states in ^{77}Kr from the $^{78}Kr(d, vector, t)^{77}Kr$ reaction. (A34; differential cross sections, 15.95 MeV, cross sections, vector analyzing powers). [Data] 472241
- Spins and parities of low-lying states in ^{77}Kr from the $^{78}Kr(d(pol), t)^{77}Kr$ reaction. (A34). 483852
- KRYPTON 79:**
- biological half-life**
- Evaluation of the health hazard from inhaled krypton-85. (C21). [Data] 473045
- diffusion**
- Trace-diffusion of spallation products in polycrystalline zirconium-beta. (B13). 493772
- retention**
- Evaluation of the health hazard from inhaled krypton-85. (C21). [Data] 473045
- KRYPTON 80 TARGET:**
- alpha reactions**
- High spin states of neutrondeficient odd Sr- and Zr-isotopes. (A34). 478691
- KRYPTON 81:**
- isotope production**
- Production of radioisotopes for nuclear medicine. (D13). 491396
- A sup(81m)Kr generator. (B13). 462759
- radioisotope generators**
- Short-lived radionuclide generators. (D13). 476829
- radiopharmaceuticals**
- Blood flow and tracer uptake in normal and abnormal canine bone: comparisons with Sr-85 microspheres, Kr-81m, and Tc-99m MDP. (C62, C21, C31). 487709
- scintiscanning**
- An application of Kr-81m gas for chronic obstructive pulmonary disease. (C62). 476795
- Blood flow and tracer uptake in normal and abnormal canine bone: comparisons with Sr-85 microspheres, Kr-81m, and Tc-99m MDP. (C62, C21, C31). 487709
- An evaluation of inhalation and perfusion scintigraphy with sup(81m)Kr. (C62). 470166
- Krypton-81m: a better radiopharmaceutical for assessment of regional lung function in children. (C62, C31). 494532
- Ventilation - perfusion lung imaging in diaphragmatic paralysis. (C62; /sup 80m/Kr ventilation imaging and /sup 99m/Tc-MAA perfusion imaging). 466407
- KRYPTON 82:**
- neutron reactions**
- The Oklo fossil reactor. Determinations of neutron capture cross sections of isotopes occurring in the Oklo phenomenon by irradiation in the reactor Triton. (A34). 462636
- KRYPTON 82 TARGET:**
- alpha reactions**
- High spin states of neutrondeficient odd Sr- and Zr-isotopes. (A34). 478691
- KRYPTON 83:**
- neutron reactions**
- The Oklo fossil reactor. Determinations of neutron capture cross sections of isotopes occurring in the Oklo phenomenon by irradiation in the reactor Triton. (A34). 462636
- spent fuels**
- Isotopic correlations in fission gases applied to light water reactors. (E32, E31; ^{131}Xe , ^{132}Xe , ^{133}Xe , ^{136}Xe , ^{84}Kr , ^{86}Kr). 473912
- KRYPTON 83 TARGET:**
- alpha reactions**
- Gamma-ray multiplicities in (α, n) -reactions on targets of Kr isotopes. (A34). 478772
- KRYPTON 84:**
- spent fuels**
- Isotopic correlations in fission gases applied to light water reactors. (E32, E31; ^{131}Xe , ^{132}Xe , ^{133}Xe , ^{136}Xe , ^{84}Kr , ^{86}Kr). 473912
- KRYPTON 84 REACTIONS:**
- compound-nucleus reactions**
- Remeasurement of ^{40}Ar and ^{84}Kr excitation functions leading to the same compound nucleus, ^{138}Er . (A34). [Data] 465144
- coulomb excitation**
- Coulomb excitation study of ^{182}La ^{186}W isotopes. (A34). 483887
- elastic scattering**
- TDHF calculations of Kr-induced strongly damped collisions. (A33; 494 to 714 MeV). [Data] 486216
- KRYPTON 84 TARGET:**
- alpha reactions**
- Gamma-ray multiplicities in (α, n) -reactions on targets of Kr isotopes. (A34). 478772
- KRYPTON 85:**
- absorption**
- On the krypton-85 absorption and desorption in different liquids. (B33). 479679
- adsorption**
- Method and apparatus for recovering leaked radioactive krypton gas. (E15). 491548
- atmospheres**
- Measuring methods of the atmospheric ^{85}Kr concentration measured in ATOMKI(Debrecen, Hungary) between 1966-1977. (B33, B11). [Data] 472869
- biological radiation effects**
- Effect of chronic ^{85}Kr exposure. (C21; Rats). [Data] 473102
- bypasses**
- Study of the cardiovascular system. (C62). 482424
- desorption**
- On the krypton-85 absorption and desorption in different liquids. (B33). 479679
- Release of implanted Kr-85 during reactions of negatively charged plasma products with metal surfaces. (B12). [Data] 472437
- diffusion**
- Interdiffusion of krypton and xenon in high pressure helium. (B12, E35). 468709
- dosimetry**
- Krypton-85 dosimetry using thermoluminescent dosimeters. (C21). 473050
- energy levels**
- Positive-parity states of ^{85}Kr . (A33). 490045

- environment**
Measured weekly ^{85}Kr concentrations with 150 km of the Savannah River Plant (March 1975 - August 1976). (B33, C52). [Data] 487156
Model evaluation for travel distances 30 to 140 km. (B33, C52; Verification of transport models using ^{85}Kr data at Savannah River Plant). [Data] 460934
- freezing out**
Low-temperature technology for the separation of krypton in reprocessing plants under nuclear conditions. (B16). 472576
- health hazards**
Evaluation of the health hazard from inhaled krypton-85. (C21). 473045
- leaks**
Method and apparatus for recovering leaked radioactive krypton gas. (E15). 491548
- maximum permissible activity**
Limiting value of the mean specific activity. (C53). 494446
- nuclear structure**
Positive-parity states of ^{85}Kr . (A33). 490045
- radiation hazards**
Estimation of radiation hazard of global ^{85}Kr . (C55, C22). 494493
- radiation monitoring**
Determination of krypton 85 atmospheric activity in the northern hemisphere from 1972 to 1977. (B33). 472884
Measured weekly ^{85}Kr concentrations with 150 km of the Savannah River Plant (March 1975 - August 1976). (B33, C52). [Data] 487156
Model evaluation for travel distances 30 to 140 km. (B33, C52; Verification of transport models using ^{85}Kr data at Savannah River Plant). [Data] 460934
- radioactive waste disposal**
Krypton-85 disposal program. Semiannual report, August 15, 1977 - March 31, 1978. (E52). 471080
- radioactive waste processing**
Development of the Krypton Absorption in Liquid CO_2 (KALC) process: mass transfer efficiencies of packed columns. (E51, B16). 488327
Method and device for fixing radioactive gases. (E51). 482907
Radioactive krypton and xenon in nuclear power plant fuel cycle. (E51, B16). [Data] 485167
- radioactive waste storage**
Materials screening tests for the krypton-85 storage development program. (B16, B15). 465523
- radioecological concentration**
Verification of two simple meteorological models at large travel distances using ten-hour ^{85}Kr measurements. (B33). 479716
- radioisotope batteries**
Department of Energy's beneficial uses of radioisotopes program. (D20). 463493
- sampling**
Release rates of ^{85}Kr from the Savannah River Plant. (B33). 479717
- separation processes**
Adsorption properties of a molecular A sieve for ^{85}Kr . (B11). 484012
Method to remove radioactive krypton and radioactive xenon from nuclear reactor off-gases. (E13). 482573
Technical and economic evaluation of the atmospheric containment technology for radioactive isotope releases from nuclear fuel reprocessing plants. Environmental Study No. 2. (C52, B16). [Data] 466285
- toxicity**
Embryotoxicity of ^{85}Kr in gravid rats. (C21). [Data] 473035
- washout**
On the krypton-85 and xenon-133 washout possibility during the water phase transformations in a closed volume. (B33). 479680
- KRYPTON 86:**
- spent fuels**
Isotopic correlations in fission gases applied to light water reactors. (E32, E31; ^{131}Xe , ^{132}Xe , ^{133}Xe , ^{136}Xe , ^{84}Kr , ^{86}Kr). 473912
- KRYPTON 86 REACTIONS:**
Dynamical birth and thermal death of angular momentum in heavy ion reactions. (A34; Collective model, 600 MeV, cross sections, J). 478753
- angular momentum transfer**
Q- and Z-dependence of angular momentum transfer in deeply inelastic collisions of ^{86}Kr with ^{209}Bi . (A34). 483864
- deep inelastic heavy ion react**
Kr and Xe induced reactions. (A34; 710 and 1120 MeV). [Data] 486469
- deep inelastic scattering**
Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
Study of the continuum γ ray spectra emitted with heavy ion interactions. (A34). 472283
- elastic scattering**
Evidence for statistical equilibrium of the fragment isobaric distributions in strongly damped collisions of ^{86}Kr with ^{166}Er . (A34). 478729
- erbium 166 target**
Final and primary yields and dispersions for strongly damped reaction of $^{86}\text{Kr} + ^{166}\text{Er}$. (A34). 478706
- erbium 166 target**
TDHF calculations of Kr-induced strongly damped collisions. (A33; 494 to 714 MeV). [Data] 486216
- large area two dimensional position sensitive detectors. (E41). [Data] 466822**
- heavy ion fusion reactions**
TDHF calculations of Kr-induced strongly damped collisions. (A33; 494 to 714 MeV). [Data] 486216
- mev range 100-1000**
Neutron emission in deep inelastic reactions induced by ^{86}Kr on ^{166}Er at 5.7, 7.0, and 7.9 MeV/nucleon. (A34). 475803
- tin 120 target**
Large area two dimensional position sensitive detectors. (E41). [Data] 466822
- KRYPTON 86 TARGET:**
- alpha reactions**
Gamma-ray multiplicities in (α ,n)-reactions on targets of Kr isotopes. (A34). 478772
- KRYPTON 90:**
- beta-minus decay**
Decay of ^{90}Kr . (A34). 486371
- KRYPTONATES:**
See KRYPTON COMPOUNDS
- KS-150 REACTOR:**
See BOHUNICE A-1 REACTOR
- KUHFR REACTOR:**
- construction**
Construction of a high flux research reactor and conversion of Kyoto University Reactor KUR to a TRIGA type pulsed reactor. (E36). 492035
- specifications**
Construction of a high flux research reactor and conversion of Kyoto University Reactor KUR to a TRIGA type pulsed reactor. (E36). 492035
- KUPFER CELLS:**
See RETICULOENDOTHELIAL SYSTEM
- KUR REACTOR:**
- planning**
Construction of a high flux research reactor and conversion of Kyoto University Reactor KUR to a TRIGA type pulsed reactor. (E36). 492035
- uses**
Construction of a high flux research reactor and conversion of Kyoto University Reactor KUR to a TRIGA type pulsed reactor. (E36). 492035
- KWO REACTOR:**
See OBRIGHEIM REACTOR
- KWS-1 WYHL REACTOR:**
See WYHL-1 REACTOR
- KYOTO UNIVERSITY HIGH FLUX REA:**
See KUHFR REACTOR
- KYOTO UNIVERSITY REACTOR:**
See KUR REACTOR
- KYUSHU-1 REACTOR:**
See GENKAI-1 REACTOR
- KYUSHU-2 REACTOR:**
See GENKAI-2 REACTOR
- KYUSHU-3 REACTOR:**
See SENDAI-1 REACTOR
- K01:**
See KAONS NEUTRAL SHORT-LIVED
- K02:**
See KAONS NEUTRAL LONG-LIVED
- L CELLS:**
- biological radiation effects**
Dose-modifying effect of a cyanidine chloride derivative, keracyanin, for uv irradiation of murine L fibroblasts cultured in vitro. (C11). [Data] 479753
- L CONVERSION:**
- x-ray spectra**
L x-ray yields from double-vacancy states in indium. (A12). [Data] 471352
- L SHELL:**
(Atomic electron shells)
- excitation**
Study of single-electron excitations by electron microscopy. (A32). 468241
- inner-shell ionization**
The L_1 -shell ionisation of atoms by relativistic particles. (A12). [Data] 471367
- ionization**
Contribution to the study of ionization of elements by protons and alpha particles of 4 to 30 MeV. (A12). 467290
- x radiation**
L x-ray yields from double-vacancy states in indium. (A12). [Data] 471352
- x-ray spectra**
X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- L-ALANINE:**
See ALANINE-L
- L-ALANINE-ALPHA:**
See ALANINE-L
- L-CONVERSION COEFFICIENT:**
See L CONVERSION
- L-S COUPLING:**
- quantum mechanics**
A simple classical derivation of spin-orbit couplings. (A12). 471407
- symmetry groups**
On the interpretation of crystal-field parameters with additive models. (A11). 480991
- L-2 STELLARATOR:**
- energy balance**
Energy balance of a plasma at the L-2 stellarator with joule heating. (A14). 483293
- synchrotron radiation**
Study on the plasma cyclotron electron radiation at the L-2 stellarator. (A14). 483294

- thermal radiation**
Study on the plasma cyclotron electron radiation at the L-2 stellarator. (A14). 483294
- L-77 PUERTO RICO REACTOR:**
See *PRNC-L-77 REACTOR*
- LA SALLE COUNTY-2 REACTOR:**
pressure vessels
Acoustic emission monitoring and ultrasonic examination correlation on a reactor pressure vessel. Final report. (E22, E17). 461609
- LABELLED COMPOUNDS:**
(Compounds labelled with either stable or radioactive isotopes.)
See also *RADIOPHARMACEUTICALS*
- blood plasma**
Folate metabolism and in vivo radiofolate binding in normal, folate deficient and folate-saturated subjects. (C21). 482094
- chemical preparation**
Concentration of activity in brain following administration of ^{11}C -labeled α -p-iodoanilinophenylacetone. (C21, B13). 479968
Iodination reactions with lactoperoxidase immobilized on phenoxycetylcellulose (Enzorb A). (B13). 479082
Production of [^{14}C]rubratoxin B. (B13). 479088
Stable radiographic scanning agents. (B13, C62). 479117
Tracer prepare and method for its production. (B13, C62). 472492
- energy spectra**
Spectra of individual molecular isotopes in an unseparated natural mixture. (B12). 460442
- iodine 125**
Method of testing inflammation. (C31, C62). 482111
- iodine 131**
Iodination reactions with lactoperoxidase immobilized on phenoxycetylcellulose (Enzorb A). (B13). 479082
- metabolism**
New prospects offered by carbon 11 for pharmacokinetic studies. (C31). 491070
- purification**
The purification of affinity-labelled active-site peptides. (B12). 476010
- qualitative chemical analysis**
Some aspects of aminoglycoside antibiotic measurement. (C45). 482167
- scintillation counting**
Folate metabolism and in vivo radiofolate binding in normal, folate deficient and folate-saturated subjects. (C21). 482094
- spectral shift**
Spectra of individual molecular isotopes in an unseparated natural mixture. (B12). 460442
- stability**
An ultrafiltration technique for labeling red blood cells with Tc-99m. (B13, C21). 486706
- standardized terminology**
Nomenclature of inorganic chemistry. (B12, B13). 493593
- synthesis**
New method for isotopic labelling of organic compounds involving organoboranes. (B13). 490445
- technetium 99**
Stable radiographic scanning agents. (B13, C62). 479117
- triiodothyronine**
A new concept for rapid non-equilibrium T_3 uptake measurements. (B11, B13, C62). [Data] 468592
- LABELLING:**
catalysis
Catalysts in radiohalogen labelling. (B13). [Data] 472486
- erythrocytes**
An ultrafiltration technique for labeling red blood cells with Tc-99m. (B13, C21). 486706
- immunoglobulins**
Differential radiolabelling of lymphocyte membrane alloantigens and immunoglobulins: variation of H_2O_2 concentration during lactoperoxidase catalyzed cell surface radio iodination. (C45). 494375
- iron 59**
Extraction properties of octaethyltetraamidopyrophosphate (OETAPP) Pt. 3. (B12). 484031
- lymphocytes**
Differential radiolabelling of lymphocyte membrane alloantigens and immunoglobulins: variation of H_2O_2 concentration during lactoperoxidase catalyzed cell surface radio iodination. (C45). 494375
- radiochemistry**
Radiochemical synthesis and photochemical properties of the uncoupler 2-azido-4-nitrophenol, a versatile photoaffinity labeling. (D13, B12). 473554
- tritium compounds**
Preparation of some tritium labelled nucleosides by catalyzed exchange in solution. (B13). 462757
- LABORATORY ANIMALS:**
Support facilities. (F30). 471143
- biological radiation effects**
Toxicity of inhaled beta-emitting radionuclides: an experimental approach. (C21). 469751
- exposure chambers**
System for exposure of animals to nitrogen dioxide. (E42). 471010
- LABORATORY EQUIPMENT:**
See also *AIR SAMPLERS; GLOVEBOXES; HOT CELLS; MANIPULATORS; SAMPLERS*
Support facilities. (F30). 471143
- comparative evaluations**
Respirable aerosols from a Trost air jet mill/Wright dust feed aerosol generator. (C52, E42). 473245
- fabrication**
Optical measurements on hydrogen at ultrahigh static pressures. Summary report for NRIP W233. (E42). 474156
- manuals**
Laboratory training manual on the use of nuclear techniques in animal research. (E41). 492087
- specifications**
Facilities, instruments and structural elements for radiochemical laboratory work. (Catalogue sheets). (E42). 482888
- LABORATORY SYSTEM:**
efficiency
The role of a nuclear research laboratory in support of a utility's nuclear power programme. (F61). 495323
- relativity theory**
On the introduction of the laboratory frame of reference in gravity theory. (A11). 492452
- research programs**
The role of a nuclear research laboratory in support of a utility's nuclear power programme. (F61). 495323
- LACQUERS:**
radiation hardening
Energy saving in industrial varnishing techniques. (D23, B14). 476873
- LACTAMS:**
See also *PVP*
- LACTATION:**
biological effects
Influence of pregnancy and lactation on response of rats to plutonium. (C21; ^{239}Pu). [Data] 473069
- lth**
The importance of prolactin for lactation in the ewe. (C45). 487354
- radiopharmaceuticals**
The build up of technetium in breast milk following the administration of ^{99}Tc sup(m)0 $_a$ labelled macroaggregated albumin. (C21). [Data] 491021
- LACTOBACILLUS:**
chemiluminescence
Chemiluminescence from non-bioluminescent bacteria: the importance of redox state and oxygen. (C12, A12). 487190
- radiation induced mutants**
Activity of Lactobacillus casei and its gamma-radiation induced mutant in different types of milk. (C12). 484492
- LACTONES:**
See also *COUMARIN*
- radiolysis**
Pulse radiolysis of 4-methyl-7-oxycoumarin ethanol solutions. (B14). 479316
- LAGRANGE FIELD EQUATIONS:**
See *LAGRANGIAN FIELD THEORY*
- LAGRANGIAN:**
See *LAGRANGIAN FUNCTION*
- LAGRANGIAN FIELD THEORY:**
Field theory, chiral symmetry, and pion-nucleus interactions. (A33). 483732
- On the canonical structure of gauge theories. (A11). 474467
- commutation relations**
Indefinite-metric quantum field theory of general relativity, 2. (A11). 481000
- dirac approximation**
Dirac quantisation of a massive spin-3/2 particle coupled with a magnetic field. (A11). 488624
- dirac equation**
A Lagrangian with higher derivatives for arbitrary spin fields. (A11). 474465
- light cone**
Quantization of field theories in light-cone coordinates. (A11; Inconsistencies). 467145
- nonlinear problems**
Properties of general relativistic kink solution. (A11). 459683
- o groups**
Dynamic charges in field theories. (A11, A21). 477626
- propagator**
Quantization of field theories in light-cone coordinates. (A11; Inconsistencies). 467145
- LAGRANGIAN FUNCTION:**
Lagrangian-similarity diffusion-deposition model. (C52). 480079
- algebra**
Jordan algebra and the classical systems described by degenerated and non-degenerated lagrangians. (A11). 471288
- einstein field equations**
A new Lagrangian for the vacuum Einstein equations and its tetrad form. (A11). 474498
- instantons**
Instanton enhancement of $\Delta I = 1/2$ nonleptonic interactions. (A11, A21). 480992
- metrics**
On the generally invariant Lagrangians for the metric field and other tensor fields. (A11). 488686
- tensors**
On the generally invariant Lagrangians for the metric field and other tensor fields. (A11). 488686
- LAKE ERIE:**
sediments
Effect of deposit feeders on migration of ^{137}Cs in lake sediments. (B31). 469520
- LAKE HURON:**
sediments
Effect of deposit feeders on migration of ^{137}Cs in lake sediments. (B31). 469520

LAKE MICHIGAN:

air pollution

Pollutant transformations over Lake Michigan. (C52). 480009

LAKES:

See also GREAT LAKES; LAKE ERIE; LAKE HURON; LAKE MICHIGAN

contamination

Distribution of tritium in a chronically contaminated lake. (C22, C21; White Oak Lake in Oak Ridge Reservation). 461116

Estimating the fallout on Great Slave Lake from Cosmos-954. (B33, B32). 472871

radioactivity

American coot (*Fulica americana*) on the Hanford Site. Part 1. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). 487211

LAMB SHIFT:

microwave spectra

A precision determination of the Lamb shift in hydrogen. (A12). [Data] 462137

LAMB-RETFERDORF SHIFT:

See LAMB SHIFT

LAMBDA NEUTRAL:

See LAMBDA PARTICLES

LAMBDA PARTICLE BEAMS:

Hyperon beams as a source of polarized protons. (E16). 466561

LAMBDA PARTICLES:

Resonance and neutral particle production in high energy πp interactions. (A22; 360 GeV/c, cross sections, mechanisms). 468189

binding energy

Analysis of p-shell hypernuclei with effective lambda-nucleon potentials. (A11). 471277

hadronic particle decay

Hyperon beams as a source of polarized protons. (E16, A12). 491684

pair production

Search for high-mass resonances and study of neutral strange particle production in anti p p interactions at 14.75 GeV/c. (A22; Cross sections, rapidity, Feynman scaling, transverse momentum). [Data] 478548

particle production

Cumulative production of protons and Λ hyperons in the interactions of fast negative pions and neutrons carbon nuclei. (A33, A21). 475775

Cumulative production of Λ -hyperons in πC and nC -interactions. (A22). 483709

The discovery of resonances in multibaryon systems. Pt. 3. Λ p-resonances. (A33, A34). 468410

Hypernuclei. (A22). 468205

Inclusive production of $K^0_{sub}(S)$, Λ and anti Λ in anti pp interactions at 3.6 GeV/c. (A22). 472070

Neutral particle production from 300 GeV/c proton proton collisions in the Fermilab 15 foot bubble chamber. (A22; Cross sections, transverse distribution). [Data] 486144

Neutral strange particle production from nuclear targets by 300 GeV protons. (A22; Cross sections, Lorentz invariance). [Data] 478567

Polarization in inclusive Lambda production. (A22). 489958

Search for high-mass resonances and study of neutral strange particle production in anti p p interactions at 14.75 GeV/c. (A22; Cross sections, rapidity, Feynman scaling, transverse momentum). [Data] 478548

Study of inclusive reactions $K^- p \rightarrow K^- \bar{p} + X$ and $K^- p \rightarrow \Lambda^0 + X$ at 6.5 GeV/c. (A22). 489938

A study of inclusive Λ , Σ^0 and $\Sigma(1385)$ production in $K^- p$ interactions at 8.25 GeV/c. (A22). 468164

Study on inclusive distributions of Λ^0 and K^0_s particles produced in πp interactions at 5 GeV/c. (A22). 464875

polarization

Reactions $K^-/sub L^0 p \rightarrow K^-/sub s^0 p, \Lambda \pi^+$ and $\Sigma^0 \pi^+$ at 550 MeV/c. (A22; Partial wave ambiguities, Legendre polynomial). 460242

Weak effects in high transverse-momentum hadron-hadron collisions. (A21; Parton model, asymmetry, scattering amplitudes). 481398

proton-antiproton interactions

Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 475657

Inclusive neutral particle production in anti pp interactions at 22.4 GeV/c. (A22). 468168

spin orientation

Λ^0 polarization in proton-proton interactions at $\sqrt{s}=53$ and 62 GeV. (A22). 483690

LAMBDA POINT:

scaling laws

Corrections to dynamic scaling for the lambda transition in liquid helium. (A17). 489686

LAMBDA-2250 RESONANCES:

hadronic particle decay

Observation of the kaonic decay of the Λ /sub c/+ charmed baryon. (A22). [Data] 464888

Observation of the kaonic decay of the Λ /sub c/+ charmed baryon. (A22; Rates). [Data] 486131

particle production

Charm particle production by neutrinos. (A22). [Data] 478566

LAMBS:

See SHEEP

LAMINAR FLOW:

air

Augmentation of laminarization-like phenomena by acceleration. (E33). [Data] 477263

flow models

Numerical solution of recirculating flow by a simple finite element recursion relation. (E11). 487828

natural convection

Laminar natural convection over a slender vertical frustum of a cone. (E11). 482547

LAMINOGRAPHY:

See TOMOGRAPHY

LAMPF LINAC:

accelerator facilities

Physics program at LAMPF. (E16). 480464

beam dynamics

Pion beam development for the LAMPF biomedical project. (E16). 477047

beam extraction

Experience with the LAMPF Line D Fast Kicker System. (E16). 494865

beam monitors

High intensity beam profile monitors for the LAMPF primary beam lines. (E16, A14). 477001

beam profiles

Beam tomography or ART in accelerator physics. (E16; Current density profiles). 470383

beam pulsers

Versatile H^+ beam chopper system at LAMPF. (E16). 477022

beam transport

Secondary beam line phase space measurement and modeling at LAMPF. (E16). 476988

camac system

Design and operation of the LAMPF Auxiliary Controller. High-speed remote processing on the CAMAC dataway. (E16). 480481

data acquisition systems

Data display with the Q system. (E16, E42). 491652

hydrogen 1 minus beams

Time-resolved beam energy measurements at LAMPF. (E16). 477003

muon beams

Cloud and surface muon beam characteristics. (E16). 477080

The stopped muon channel at LAMPF. (E16). 484875

physical radiation effects

LAMPF primary beam line protection system. (E16). 480480

pion beams

Pion beam development for the LAMPF biomedical project. (E16). 477047

polarized beams

Innovative spin precessor for intermediate energy protons. (E16). 477000

800-MeV spin precessor for polarized H^- beams using H^- to H^0 stripping. (E16). 480521

radiation protection

LAMPF primary beam line protection system. (E16). 480480

remote handling equipment

Monitor 1979. (E16). 476992

research programs

Physics program at LAMPF. (E16). 480464

Status of LAMPF. (E16). 466556

storage rings

Neutral beam injection for a proton storage ring. (E16). 480465

targets

Graphite targets for use in high intensity beams at LAMPF. (E16). 476950

LAND TRANSPORT:

accidents

Personal doses from atmospheric distribution of cesium-137 from land transport. (C52). [Data] 480166

radioactive materials

Individual radiation doses due to atmospheric diffusion of cesium-137 in connection with land transport of radioactive material. (B33, C43). 490897

risk analysis

Transportation of nuclear fuel. (E15). 491552

LAND USE:

environmental impact statement

Final environmental statement related to operation of White Mesa Uranium Project, Energy Fuels Nuclear, Inc. (B33, B31, B32, C52). 487155

LANDAU ABSORPTION:

See LANDAU DAMPING

LANDAU DAMPING:

cold plasma

Cold, electrostatic, ion-cyclotron waves and ion-ion hybrid resonances. (A14). 485790

LANDAU DOMAIN STRUCTURE:

See DOMAIN STRUCTURE

LANDAU LIQUID HELIUM THEORY:

helium 3

Determination of the Landau parameter $F_{2sup}(s)$ for liquid helium three from acoustical measurements. (A17). 462500

phase transformations

Landau theory of the reentrant nematic-smectic A phase transition. (A13). 492680

LANGMUIR FREQUENCY:

schrodinger equation

Coupled nonlinear Schrodinger equation for Langmuir and dispersive ion acoustic waves. (A14). 489345

solitons

Coupled nonlinear Schrodinger equation for Langmuir and dispersive ion acoustic waves. (A14). 489345

LANGMUIR OSCILLATIONS:

See PLASMA WAVES

LANGMUIR PROBE:

ac amplifiers

Development of automatic recording system of probe measurement. (A14). 471659

measuring instruments

Langmuir probe for low density plasma measurement. (A14). 492749

LANGUAGES (PROGRAMMING):

See PROGRAMMING LANGUAGES

LANOLIN:

radappertization

Radiation sterilization of some cosmetic raw materials and preparations. (B14). [Data] 472499

LANOXIN:

See DIGOXIN

LANTHANIDES:

See RARE EARTHS

LANTHANUM:

absorption spectra

On the character of the intense $4d \rightarrow f$ resonances in atomic La and Tm. (A12). [Data] 488887
Systematic comparisons between the $4d$ spectra of lanthanide atoms and solids. (A12). [Data] 488888

absorption spectroscopy

Some studies on atomic absorption spectrometry using ultrahigh-frequency plasma as atomizer. (B11). 490299

activation analysis

Determination of trace elements in poly(methyl methacrylate) by neutron activation analysis. (B11; Neutron reactions). [Data] 478829

Geothermal water analysis by x-ray fluorescence and neutron activation. (B11). 460428

Harrisburg $1^0 \times 2^0$ NTMS area, Pennsylvania: data release. (B31; B11; NURE program). 465770

adsorption

On peculiarities of lanthanum atom adsorption on tungsten. (B22, A13). 476259

Sorption behavior of trivalent actinides and rare earths on clay minerals. (E52). 461939

band theory

Linear augmented plane wave method for self-consistent calculations. (A13). [Data] 462244

catalysis

Hydrocarbon conversion with cracking catalyst having co-combustion promoters lanthanum and iron. (B12; Patent). 478925

chromatography

Metal-ion chelation chromatography on silica-immobilized 8-hydroxyquinoline. (B11). [Data] 472357

crystal structure

Utilization of NMR in determination of hydrogen structure in solids. (A13, B22). 464126

electrochemical corrosion

Lanthanum interaction with molten sodium and potassium chlorides in the presence of lanthanum trichloride. (B15). 479326

electronic structure

Bremsstrahlung of La and its dependence on electron energy. (A13). 481148

element abundance

Rare earths in barites: distribution and effects on aqueous partitioning. (B31). [Data] 487086

emission spectroscopy

Direct spectrographic determination of In, La, Nb, and Sr in thorium oxide. (B11). 472397

energy levels

Lifetimes of excited states of barium and lanthanum and the modification of the Hanle effect by strong optical pumping. (A12). 481023

films

Effect of interaction through substrate on the structure of two-dimensional crystals formed by adsorbed atoms. (B22). 469240

impurities

Nuclear spin relaxation investigation of impurity properties in fcc lanthanum. (A13). 477899

proton reactions

Direct measurements of the masses of rubidium and cesium isotopes far from stability. (A34). 478725

quantitative chemical analysis

Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676

solvent extraction

Distribution ratios and empirical equations for the extraction of elements in pure high level waste solution. (B12, B13). [Data] 460532

Solvent extraction used in industrial separation of rare earths. (B12, B16). [Data] 468704

spin-lattice relaxation

Nuclear spin relaxation investigation of impurity properties in fcc lanthanum. (A13). 477899

transition temperature

Pressure behaviour of the superconducting transition temperature of lanthanum. (A17). 464719

LANTHANUM ALLOYS:

See also LANTHANUM BASE ALLOYS; MISCH METAL

absorption spectra

Chemical shifts of the L_3 -absorption edge of Pt in the rare earth-platinum intermetallic compounds. (A12). 481037

charged-particle transport

LAMPF results on μ^+ diffusion in metals. (A32, B22; Depolarization rate). 486177

chemical shift

Chemical shifts of the L_3 -absorption edge of Pt in the rare earth-platinum intermetallic compounds. (A12). 481037

crystal structure

Crystal structure of $R_{10}Ga_3Co_2(R=Y, La)$. (B12). 493604

curie point

Metal-semiconductor transition in $La_{0.71}Pb_{0.29}MnO_{0.3}$ monocystal at Curie point. (A13). 474709

diffusion

Hydrogen diffusion in β -LaNi₃ hydride. (B22). [Data] 481825

electric conductivity

Moessbauer effect and electrical resistivity in splat-quenched $la-Au$ alloys. (B22). 479429

Resistive behavior and intermediate valence effects in $La/sub 1-x/Ce/sub x/Pd/sub 3-x/Rh/sub x/$. (B22). 479450

electronic structure

Band structure and atomic radius of Gd-La alloys. (A13). 467367

Electron spin resonance of Nd^{4+} in d band cubic intermetallic compounds. (B22, A17). 479364

Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377

Electronic structure of intermetallic compounds with CsCl structure: NMR relaxation times. (A13). [Data] 462225

energy-level density

Low-energy excitations of hydrogen and deuterium in $LaNi_3$. (A13). [Data] 481078

exchange interactions

Magnetoresistivity of $(La, Gd)Al_2$ dilute alloys. (B22). 486870

hydridation

Stability of $LaNi_2$ hydride. (B22, B12). 476287

intermetallic compounds

Forecasting the properties of binary rare-earth element compounds on the basis of their simplified electron structure. (B22, B12). 493979

ion implantation

Ion implanted surface alloys in nickel. (A13). [Data] 471561

laves phases

Electronic configurations and energies in some thermodynamically correlated laves compounds. (B22). 479377

magnetic properties

Magnetic properties of amorphous alloys of Fe with La, Lu, Y, and Zr. (B22). 465598

magnetic susceptibility

Magnetic susceptibility of $La_{sub}(x)Sm_{sub}(1-x)B_{sub}(6)$ solid solutions. (B22). 493912

On some low-temperature properties of $(La,Ce)B_6$ alloys. (A13). [Data] 471439

magnetoresistance

Magnetoresistivity of $(La, Gd)Al_2$ dilute alloys. (B22). 486870

mechanical properties

Structure and properties of transition metal-metalloid glasses based on refractory metals. (B23, B24, B22). 472698

moessbauer effect

Magnetic properties of amorphous alloys of Fe with La, Lu, Y, and Zr. (B22). 465598

Moessbauer effect and electrical resistivity in splat-quenched $la-Au$ alloys. (B22). 479429

phase diagrams

Magnetic phase diagrams of $Cesub(x)Lasub(0.76)Ysub(0.24)sub(1-x)Bi$ compounds. (B12, B22). [Data] 475923

solid solutions

Study on the $Smsub(x)Lasub(1-x)Bsub(6)$ solid solution system. (B22, B23). 493911

specific heat

Low temperature heat capacity studies on hydrogen absorbing intermetallic compounds. (B22). 486929

ternary alloy systems

The phase $La_2U_2N_3$. (B22, B12). 479464

transition temperature

Anomalous pressure dependences of the superconducting transition temperature of dilute alloys of $LaSn_3$ containing light rare earth impurities. (A17, B22; Y, Ge, Pr, Nd, Sm, Eu, Gd, Lu). 485981

LANTHANUM BASE ALLOYS:

critical field

Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089

transition temperature

Alloying effect on superconductivity in amorphous lanthanum-based alloys. (B22, A17). 469089

Influence of alloying on the superconducting transition temperature of La_2In . (B22, A17). 472638

LANTHANUM BORIDES:

emissivity

Emissivity of LaB_6 at 650 nm. (B23). 490676

magnetic susceptibility

On some low-temperature properties of $(La,Ce)B_6$ alloys. (A13). [Data] 471439

surfaces

Direct observation of $LaB_6(001)$ surface at high temperatures by x-ray and ultraviolet photoelectron spectroscopy, low-energy electron diffraction, Auger electron spectroscopy, and work-function measurements. (B23). 490653

thermionic emission

Study of surface stoichiometry and thermionic emission using LaB_6 . (B23). 486972

work functions

Work function of sintered lanthanum hexaboride. (B23). 469381

x-ray spectroscopy

Direct observation of $LaB_6(001)$ surface at high temperatures by x-ray and ultraviolet photoelectron spectroscopy, low-energy electron

- diffraction, Auger electron spectroscopy, and work-function measurements. (B23). 490653
- LANTHANUM CARBIDES:**
- targets**
- High-temperature carbide targets for fast on-line mass separation of alkali and noble gas elements. (E16). 461544
- LANTHANUM CHLORIDES:**
- aqueous solutions**
- On redistribution of solvent in the $\text{MCl-LAlCl}_3\text{-H}_2\text{O}$ ($\text{M} = \text{Li, K, Cs}$) systems from experimental data of specific heat and volume properties. (B12). 476040
- chemical reaction kinetics**
- Kinetics of lanthanum and praseodymium reduction from chlorides by calcium. (B12). 493699
- chemical reactions**
- On complexing in binary chloride systems. (B12). 475935
- europium ions**
- Correlation crystal fields for rare earths and actinides. (A12). 459741
- flotation**
- On flotation separation of ions collected by fine-emulsified solutions of collectors. (B12). 493710
- molecular structure**
- Electron-diffraction examination of the LaCl_3 molecule. (B12). 468719
- polarizability**
- Refractive indices and polarizabilities of several molten rare earth chlorides. (B12). [Data] 476028
- pyrolysis**
- Thermal stability of thiocarbamide compounds of lanthanum, cerium and praseodymium chlorides. (B12). 476068
- quantitative chemical analysis**
- Determination of light lanthanides by the method of atomic absorption spectrometry. (B11). 493510
- raman spectra**
- Raman intensity analysis of LaCl_3 . (A12). 467300
- reduction**
- Supplementary phenomena during calcitermic reduction of lanthanum and praseodymium from chlorides in melts. (B12). 479037
- refractive index**
- Refractive indices and polarizabilities of several molten rare earth chlorides. (B12). [Data] 476028
- terbium ions**
- Correlation crystal fields for rare earths and actinides. (A12). 459741
- LANTHANUM COMPLEXES:**
- chemical preparation**
- Formation of dinuclear complexes in the systems of Nd-La-EDTA, Eu-Hf-EDTA, Eu-Nd-DTPA. (B12). 490415
- Uranyl and lanthanide complexes of the 1,2-dipyridylethylene isomers. (B12, B13). [Data] 481690
- chemical reaction kinetics**
- Formation constants of chelates of 7-bromo-8-hydroxy-quinoline-5-sulphonic acid with yttrium and some lanthanides. (B12). 462711
- formation free energy**
- Potentiometric studies on the ternary systems: rare earth metal ions - cyclohexanediamine tetra-acetic acid - dicarboxylic acids. (B12). 460484
- lattice parameters**
- Crystallographic data of 4,4'-bipyridine complexes with some lanthanides(3) and Cu(2). (B12). 462695
- mass spectra**
- Mass spectrometric investigation of tris-isopropylcyclopentadienyl π -complexes of lanthanum, praseodymium and neodymium. (B12). 490344
- molecular structure**
- Interactions of Lasup(III), Ndsup(III) and Lusup(III) ions with aspartic acid and asparagine in aqueous solutions. (B12). 493649
- potentiometry**
- Complex formation of trace elements in geochemical systems. (B12, B31). [Data] 460440
- precipitation**
- The precipitation of lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468838
- The precipitation of the lanthanide elements complexes with hexamine cobalt(III) cation. (B12). [Data] 468837
- proline**
- Complexation reaction of metal ions with peptide systems. IV. (B12). 484054
- schiff bases**
- Schiff base derivatives of lanthanons-synthesis of La(III), Pr(III) and Nd(III) derivatives of β -ketoimines derived from 2,4-pentanedione. (B12). 478880
- solvent extraction**
- Concentrating of lanthanides in three-phase systems. (B11; Rare earths: lanthanum, samarium). 475886
- Extraction of lanthanoids from hydrochloric and nitric acid solutions by Di(2-ethylhexyl)phosphoric acid. (B12). [Data] 475963
- spectrophotometry**
- Spectrophotometric determination of rare earths in binary mixtures. (B11; Binary mixtures: La-Y, La-Eu; La-Sm, La-Nd, Nd-Y, Nd-Eu). 486524
- stability**
- Comparative study of binary and ternary complexes of some rare earths. (B12). 460496
- Electrometric studies of some rare earth metal complexes with phloracetophenone. (B12). 460435
- Investigations on lanthanum(III) and yttrium(III) chelates with mordant black dyes. (B12). 460511
- Method of correction of stability constants of complexes formed by weak acid anions. (B12). 475998
- Mixed ligand complexes of scandium, yttrium and lanthanum with EDTA as primary ligand and polyhydroxy phenols as secondary ligands. (B12). 460494
- Mixed ligand complexes of some rare earths with EDTA as primary ligand and 2,3-dihydroxynaphthalene-6-sulphonic acid as secondary ligand : a potentiometric study. (B12). 460495
- Thermodynamic functions and stability constants of rare earths with monothiodibenzoylmethane. (B12). [Data] 481695
- structural chemical analysis**
- Satellite structures in the ESCA spectra of (diphthalocyaninato)lanthanides(III) and -actinides(IV). (B13, B12). 472495
- Structure of sodium diaquobis(benzene-1,2-dioxydiacetato)lanthanate(III) tetrahydrate. (B12). [Data] 486615
- LANTHANUM COMPOUNDS:**
- See also LANTHANUM BORIDES; LANTHANUM CARBIDES; LANTHANUM CHLORIDES; LANTHANUM FLUORIDES; LANTHANUM HYDRIDES; LANTHANUM NITRATES; LANTHANUM NITRIDES; LANTHANUM OXIDES; LANTHANUM PHOSPHATES; LANTHANUM SELENIDES; LANTHANUM SULFATES; LANTHANUM SULFIDES
- band theory**
- Some peculiarities of forming band structure in lanthanum oxyfluoride crystals. (A13). 467427
- chemical analysis**
- Investigation of lanthanum polyniobates. (B12). 475984
- chemical preparation**
- Equilibrium in $\text{K}_3\text{NbO}_7\text{-R}(\text{NO}_3)_3\text{-H}_2\text{O}$ systems ($\text{R} = \text{Y, La, Yb}$). (B12). 493624
- Hydrothermal synthesis and crystallographic characteristics of crystals LaSbO_3 , PrSbO_3 , DySbO_3 . (B12). 468785
- chemical reactions**
- Interactions of Lasup(III), Ndsup(III) and Lusup(III) ions with aspartic acid and asparagine in aqueous solutions. (B12). 493649
- Physicochemical study of high-temperature interaction between $\text{Ca}_2\text{Nb}_2\text{O}_7$ and La_3NbO_7 . (B12). 468732
- crystal growth**
- Growth of $\text{NaLn}(\text{WO}_4)_2$ ($\text{Ln} = \text{La, Nd and Gd}$) single crystals from the ternary system $\text{Ln}_2\text{O}_3\text{-WO}_3\text{-Na}_2\text{CO}_3$. (B12). [Data] 476042
- crystal structure**
- Nuclear magnetic resonance evidence for the occurrence of an ordered structure in the La-H system near LaH_2 at 250°K . (B23). 460767
- hydrogen**
- Hydrogen in metals. (A13). 477928
- infrared spectra**
- Infrared excitation spectra of visible luminescence of luminophores doped with Yb^{3+} and Er^{3+} ions. (B12). 468695
- ion exchange**
- Thermodynamics of ion exchange on oxidized coal. (B12; ion exchange of lanthanum cations). 493726
- materials testing**
- Evaluation of candidate magnetohydrodynamic materials for the U-02 Phase III test. (A16, B15, B23). 489672
- Results of tests and studies of American materials in the channel of the MHD facility U-02 (Phase III). (A16, B23, B15; LaCrO_3). [Data] 471941
- neodymium additions**
- Contribution of crystal field excited state in the EPR spectra of the Nd in compounds of the AB_2 type ($\text{A} = \text{La, Y}$ and $\text{B} = \text{Ir, Rh}$). (A13). 471466
- neutron diffraction**
- Determination of magnetic structures of compounds SrTCrO_4 ($\text{T} = \text{La, Nd}$) by neutron diffraction. (A13). 462177
- nuclear magnetic resonance**
- Nuclear magnetic resonance evidence for the occurrence of an ordered structure in the La-H system near LaH_2 at 250°K . (B23). 460767
- optical properties**
- Nonlinear optical properties of ferroelectrics $\text{Sr}_2\text{Nb}_2\text{O}_7$ and $\text{La}_2\text{Ti}_2\text{O}_7$ with stratified structure. (B12). 493660
- phase diagrams**
- Magnetic phase diagrams of $\text{CeSub}(x)(\text{LaSub}(0.76)\text{Ysub}(0.24))\text{sub}(1-x)\text{Sb}$ compounds. (B22). [Data] 481791
- polycrystals**
- Non-stoichiometry of lanthanum chromite and potential barriers in polycrystal. (B12). 484027
- solvent extraction**
- Calculation of distribution ratios of rare earth elements in multistage counter current extraction with HDEHP. (B12). [Data] 476039
- LANTHANUM FLUORIDES:**
- chemical reactions**
- Complex formation of trace elements in geochemical systems. (B12, B31). [Data] 460440
- Interaction of lanthanum, neodymium, yttrium and potassium fluorides with boron anhydride. (B12). 479027
- doped materials**
- Radiative decay rates in $\text{LaF}_3\text{:Dy}^{3+}$. (A13). 483258
- fluorescence**
- Radiative decay rates in $\text{LaF}_3\text{:Dy}^{3+}$. (A13). 483258
- LANTHANUM HYDRIDES:**
- catalysts**
- Catalytic properties of intermetallic hydrides in reactions of hydro- and dehydrogenation of 3 hydrocarbons. (B12). 476049
- crystal structure**
- Nuclear magnetic resonance evidence for the occurrence of an ordered structure in the La-H system near LaH_2 at 250°K . (B23). 460767

- degassing**
Thermokinetics of hydrogen gassing from La_{sub}(x) Ni_{sub}(y)H_{sub}(z) compounds. (B22). 476282
- differential thermal analysis**
Differential thermal analysis of La-Ni hydrides. (B12). 479043
- diffusion**
Hydrogen diffusion in β -LaNi₃ hydride. (B22). [Data] 481825
- electric conductivity**
Electric resistance anomalies in samarium and gadolinium hydrides at high pressures. (B23). 476356
- electronic structure**
Bandstructure calculations for metal hydrogen systems. (B23). 472704
- EPR investigation of LaH/sub x/ at varying hydrogen composition (2.30 < x < 2.89). (B23). 479488
- energy storage**
Investigation of the hydrogen storing compound LaNi₃H_{sub}(X) with positive muons. (A13). 474727
- energy-level density**
Low-energy excitations of hydrogen and deuterium in LaNi₃. (A13). [Data] 481078
- lattice parameters**
Bandstructure calculations for metal hydrogen systems. (B23). 472704
- muon probes**
Investigation of the hydrogen storing compound LaNi₃H_{sub}(X) with positive muons. (A13). 474727
- nuclear magnetic resonance**
Nuclear magnetic resonance evidence for the occurrence of an ordered structure in the La-H system near LaH_{2.65} at 250°K. (B23). 460767
- LANTHANUM IONS:**
- ion implantation**
Ion implanted surface alloys in nickel. (A13). [Data] 471561
- ultraviolet spectra**
Spectrum and energy levels of triply ionized lanthanum (La IV). (A12). 477734
- visible spectra**
Spectrum and energy levels of triply ionized lanthanum (La IV). (A12). 477734
- LANTHANUM ISOTOPES:**
See also LANTHANUM 125; LANTHANUM 126; LANTHANUM 127; LANTHANUM 133; LANTHANUM 135; LANTHANUM 136; LANTHANUM 138; LANTHANUM 139; LANTHANUM 140; LANTHANUM 142; LANTHANUM 143; LANTHANUM 146
- beta-minus decay**
Half-life measurements of Rb, Sr, Y, Cs, Ba, La and Ce isotopes with A < 91-98 and A < 142-149. (A34). 486372
- LANTHANUM NITRATES:**
Generation of coherent radiation from heat through adiabatic demagnetization of ⁵⁹Co²⁺:Ce³⁺:La₂Mg₃(NO₃)₁₂·24H₂O type crystals. (A13). 477948
- solvent extraction**
Study of heterogeneous equilibrium in system of La(NO₃)₃-Nd(NO₃)₃-H₂O/tributyl phosphate. (B12). 475989
- LANTHANUM NITRIDES:**
adsorption
Hydrogen absorption in ternary substituted AB₃ alloys with particular reference to La_{1-x}/sub x/Y/sub x/Ni₃ and LaNi_{3-x}/sub x/Al/sub x/ alloys. (B23). 479498
- Performance characteristics of the HYCSOS chemical heat pump system based on rare earth transition metal AB₃ hydrides. (B23). 481868
- LANTHANUM OXIDES:**
Structural, electrical, and magnetic properties in the system Basub(x)La_{sub}(1-x)CoO₃. (B12). [Data] 481685
- chemical properties**
Rare earth ceramics for MHD-power generators. (B23, A16). 479486
- chlorination**
Kinetic analysis of the process of La₂O₃ chlorination with the Cl₂+CO mixture. (B12). 493615
- crystal growth**
Flux growth of double oxides of niobium and rare-earth elements (Ln₃NbO₇). (B12). [Data] 481697
- Investigation into conditions of lanthanum beryllate crystallization. (B12). 468803
- crystal structure**
Preparation and structure of some Ln₂MoO₇ oxides. (B12). [Data] 462719
- electric conductivity**
Electrical and magnetic properties of the system LaNi_{sub}(1-s)Fe_{sub}(x)O_{sub}(3). (B12). 462733
- exchange interactions**
Super transfer in doped LaFeO₃. (A13). 467370
- glass**
Effect of some elements of scandium sub-group on crystallization ability and structure of some glasses of MnO-Al₂O₃-SiO₂ system. (B12). 478974
- magnetic susceptibility**
Electrical and magnetic properties of the system LaNi_{sub}(1-s)Fe_{sub}(x)O_{sub}(3). (B12). 462733
- moessbauer effect**
Super transfer in doped LaFeO₃. (A13). 467370
- physical properties**
Influence of composition and cation stoichiometry on the volatility, electrical conductivity and thermal expansion of LaCrO₃ based oxides. (B23, A16). 479469
- Rare earth ceramics for MHD-power generators. (B23, A16). 479486
- quantitative chemical analysis**
Spectrophotometric determination of rare earths in binary mixtures. (B11; Binary mixtures: La-Y, La-Eu; La-Sm, La-Nd, Nd-Y, Nd-Eu). 486524
- thermionic emission**
The effect of platinum metals on the emission behaviour of lanthanum cathodes. (B23). [Data] 490658
- thermodynamic properties**
Solar furnace experiments for thermophysical properties studies of rare-earth oxide MHD materials. (B23, A16). 479480
- LANTHANUM PHOSPHATES:**
chemical preparation
Study of interaction of lanthanum and neodymium ions with sodium polyphosphate in aqueous solution at 0 deg C. (B12). 490341
- fluorescence**
Fluorescence properties of bismuth-doped LaPO₄. (A13). [Data] 462219
- vapors**
On homogeneity regions and vapor composition of lanthanum and praseodymium monophosphides. (B12). 475956
- LANTHANUM SELENIDES:**
superconductivity
Moessbauer studies of ternary superconductors. (B22, A17). 469207
- LANTHANUM SULFATES:**
crystal structure
Crystal structure of cerium dicarbamide-pentahydrate-sulfate Ce₂(SO₄)₂·xOC(NH₂)₂·x5H₂O and structural characteristic of rare earth sulfates. (B12). 490394
- LANTHANUM SULFIDES:**
crystal growth
Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24). 479353
- electric conductivity**
Heat carrier scattering in monosulfides of three-valent rare-earth elements (low temperatures). (B12). 476096
- specific heat**
Low temperature heat capacities of rare earth sesquisulfides. (B24). 479525
- thermal conductivity**
Heat carrier scattering in monosulfides of three-valent rare-earth elements (low temperatures). (B12). 476096
- LANTHANUM 125:**
collective model
Collective properties of odd-mass Sb, I, Cs, and La nuclei. (A34; Bands, quasi-proton states, unexpected properties). [Data] 493404
- LANTHANUM 126:**
collective model
Collective properties of odd-mass Sb, I, Cs, and La nuclei. (A34; Bands, quasi-proton states, unexpected properties). [Data] 493404
- LANTHANUM 127:**
collective model
Collective properties of odd-mass Sb, I, Cs, and La nuclei. (A34; Bands, quasi-proton states, unexpected properties). [Data] 493404
- LANTHANUM 133:**
hyperfine structure
DPAC measurements of the magnetic hyperfine fields of Cs and La in Fe and Ni. (A13, A34). 488935
- LANTHANUM 135:**
hyperfine structure
DPAD measurements of the magnetic hyperfine fields of Zr and La in Fe and Ni. (A13, A34). 488936
- LANTHANUM 136:**
energy levels
Nuclear data sheets for A=136. (A34). 486440
- nuclear structure**
Nuclear data sheets for A=136. (A34). 486440
- LANTHANUM 138:**
energy levels
Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343
- excited states**
The g-factor of the first 3⁺ state in ¹³⁸La. (A34). 465101
- nuclear magnetic moments**
The magnetic moment of the first excited state in ¹³⁸La. (A34). [Data] 481537
- proton-neutron interactions**
Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343
- LANTHANUM 139:**
internal conversion
Nuclear structure effect on internal conversion of l-forbidden transitions in ¹³⁹La, ¹⁴¹Pr and ²⁰³Tl. (A34). [Data] 481563
- LANTHANUM 139 TARGET:**
deuteron reactions
Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343
- helium 3 reactions**
The (³He,n) reaction on N=82 targets and even isotopes of neodymium. (A34). 483821
- krypton 86 reactions**
Kr and Xe induced reactions. (A34; 710 and 1120 MeV). [Data] 486469
- TDHF calculations of Kr-induced strongly damped collisions. (A33; 494 to 714 MeV). [Data] 486216
- LANTHANUM 140:**
proton-neutron interactions
Odd-odd nuclei. (A34; J, π , cross sections, tensor force). 460343
- radioisotope generators**
Method of producing a solution of radioactive lanthanum-140 from radioactive barium-140 in an isotope generator and installation to carry out the method. (D13, B13). 484775

LANTHANUM 142:

fission yield

Fractional independent yields of ^{139}Ba and ^{142}La from thermal-neutron-induced fission of ^{240}Cf . (A34). 490205

LANTHANUM 143:

energy levels

Nuclear spectroscopy of neutron-rich $A = 143$ nuclei. (A34). [Data] 472297

LANTHANUM 146:

beta spectra

Experimental beta-decay energies of several neutron-rich nuclides with mass number $131 \leq A \leq 146$. (A34). [Data] 468506

LAP WELDS:

See WELDED JOINTS

LAPLACE EQUATION:

finite difference method

SCAPOT, Bahn and Felds - a system of programmes for the solution of the laplace-equation, for the trajectory calculation of charged particles and for the calculation of the field strength on the surface of electrodes. (F51). 466955

LAPPS:

body burden

Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111

radioactivity

Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111

LARGE INTESTINE:

See also RECTUM

adenomas

Experimental colonic tumours in the rat. III. (C61). 480237

biological radiation effects

Carcinoma of the vagina. (C15; Complications following whole-pelvis γ irradiation and radium implant therapy). 469709

Long term follow-up of combination chemotherapy - radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253

Proton radiation as boost therapy for localized prostatic carcinoma. (C15, C63). 487274

Radiation sigmoiditis in cervical cancer. (C15). 482069

Radiosurgical treatment of endometrial carcinoma: the value of simple surgery versus extended surgery. (C15, C63, C64; Comparison of incidence of radiotherapeutic complications in relation to simple or extended surgery). 473018

Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 473029

biomedical radiography

The examination of the colon. Chapter 5. (C61). 487666

Experimental colonic tumours in the rat. II. (C61). 473385

Malignancy of colonic polyps. (C61). 473346

Roentgenoendoscopic examination of patients with the colon carcinoma in radiotherapy by bremsstrahlung betatron, energy 25 MeV. (C61). 494509

carcinomas

Experimental colonic tumours in the rat. II. (C61). 473385

Experimental colonic tumours in the rat. I. (C61). 470060

Surgical studies of colon cancer at the Hiroshima Atomic Bomb Hospital for 10 years. (C15). 491003

delayed radiation effects

Delayed complications in colo-rectal carcinoma treated by combination radiotherapy and 5-fluorouracil: Eastern Cooperative Oncology Group (E.C.O.G.) pilot study. (C15, C63; ^{60}Co -teletherapy). 472998

Limitations of adjunctive surgery in carcinoma of the cervix. (C15, C63, C64). 473022

lymphatic system

Ileocecal abnormalities in appendiceal abscess. (C61). 470028

neoplasms

Pre-operation irradiation by bremsstrahlung (25 MeV) in therapy of patients with large intestine cancer. (C63). 494625

radiation injuries

Correlation between radiation dose and tumor recurrence and complications in carcinoma of the uterine cervix: Stages I and IIA. (C15, C63, C64; External and intracavitary irradiation). 473019

radiology

Experimental colonic tumours in the rat. I. (C61). 470060

Ileocecal abnormalities in appendiceal abscess. (C61). 470028

LARMOR NUCLEAR PRECESSION:

See LARMOR PRECESSION

LARMOR PRECESSION:

radiative corrections

The Stern-Gerlach quantum-like behaviour of a classical charged particle. (A11). 488707

LARVAE:

behavior

Biological and engineering investigations of fish and larval diversion systems for water intakes. (C52). 473274

cumulative radiation effects

Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346

dimensions

Concept for protecting fish larvae at water intakes. (B32). 472861

entrainment

Entrainment of ichthyoplankton and larval fishes during cooling water withdrawal. (B32). 479667

mortality

Copper sensitivity of the Northern anchovy, *Engraulis mordax*, during its early life history. (C52). [Data] 487566

Ribosomal RNA in the salivary gland of *Sciara ocellaris* during larval development. (C45). 482172

salivary glands

Ribosomal RNA in the salivary gland of *Sciara ocellaris* during larval development. (C45). 482172

thermal shock

Incorporation of sublethal effects and indirect mortality in modeling population-level impacts of a stress, with an example involving power-plant entrainment and striped bass. (C52). 476722

LARVAL STAGE:

See LARVAE

LARYNX:

biomedical radiography

Roentgeno-radioisotope investigations of larynx neoplasms. (C61, C62). 482292

delayed radiation effects

Multiple carcinomas following therapy for Hodgkin disease. (C15, C63; Sensitizing effects of subsequent chemotherapy). 466171

neoplasms

Clinico-dosimetric estimation of electron therapy of patients with larynx neoplasms. (C63, C15, C55). 494621

Early and delayed effects of radiotherapy of patients with larynx neoplasms using usual and splitted methods. (C63). 494644

radioisotope scanning

Roentgeno-radioisotope investigations of larynx neoplasms. (C61, C62). 482292

LASER CAVITIES:

beam optics

Matching of beams to laser cavities by means of openings. (A14). 459851

cavity resonators

Matching of beams to laser cavities by means of openings. (A14). 459851

optical modes

Fast calculation of the dominant modes of the laser cavities. (A14). [Data] 459900

LASER IMPLSIONS:

Ablative compression experiments at the Rutherford Laboratory. (A14). 478019

Dynamics of laser-produced implosion of gas-filled microballoon targets. (A14). 483336

Glass laser implosion experiments in Osaka. (A14). 478163

Laser fusion. Status, future and tritium control. (A14). 489141

Laser fusion experiments at the Laboratory for Laser Energetics. (A14). 478173

Recent results on explosive driven microfusion. (A14). 478088

Theoretical implosion and stability calculations of "quasi-ablatively" driven laser fusion targets at zeta- and omega-power levels (3 to 15 TW). (A14). 478118

Use of the cellulose nitrate for detection of energetic multicharged ions. (E41). 492126

Works on laser-matter interaction at the Centre d'Etudes de Limeil. (A14). 467528

breeding blankets

Structural performance of a graphite blanket in fusion reactors. (A14). 475156

breeding ratio

Scoping studies of ^{233}U breeding fusion fission hybrid. (A14). 475079

collective model

Calculations of inertial confinement fusion gains using a collective model for reheat, bremsstrahlung and fuel depletion for highly efficient electrodynamic laser compressions. (A14). [Data] 483354

economics

Laser fusion power reactor system (LFPRS). (A14). 464383

fuel pellets

Analysis of fissionable pellets for inertial confinement fusion. (A14). 475077

Non-linear theory of collective processes in laser-pellet interaction and soliton generation. (A14). 483322

gain

Calculations of inertial confinement fusion gains using a collective model for reheat, bremsstrahlung and fuel depletion for highly efficient electrodynamic laser compressions. (A14). [Data] 483354

image processing

Uniformly redundant array imaging of laser driven compressions: preliminary results. (A14). 485709

ionization

Ionization and recombination in a multicharged plasma heated by laser radiation. (A14). 464444

loss of coolant

Laser fusion power reactor system (LFPRS). (A14). 464383

materials testing

Assessment of carbon and silicon carbide as first wall materials in inertial confinement fusion reactors. (A14). 475041

mathematical models

Theoretical study of inertial confinement: model development and analyses of laser induced fusion by implosion of D-T pellets. (A14). 462305

microspheres

Electrolytic plating method and apparatus for discrete micro-sized particles. (A14). 474990

A theoretical interpretation of exploding pusher laser fusion experiments. (A14). 459905

neodymium lasers

Implosion experiment using four-beam Nd-glass laser system. (A14). 478087

- neutrons**
Study on the process of thermonuclear neutron generation on laser irradiation of conical targets. (A14). 477975
- nuclear pumping**
Nuclear-pumped laser coupling to inertial confinement fusion. (A14). 462353
- plasma diagnostics**
Plasma parameters in laser imploded targets from space-resolved x-ray spectroscopy. (A14). [Data] 462349
- plasma simulation**
Exploding pusher performance - A theoretical model. (A14). 485798
A theoretical interpretation of exploding pusher laser fusion experiments. (A14). 459905
- poland**
Recent thermonuclear fusion research at I.P.P.L.M. (A14). 478084
- recombination**
Ionization and recombination in a multicharged plasma heated by laser radiation. (A14). 464444
- scaling laws**
Scaling laws for exploding pusher targets. (A14). 489089
- solitons**
Non-linear theory of collective processes in laser-pellet interaction and soliton generation. (A14). 483322
- specifications**
SOLASE-H laser fusion hybrid. (A14). 462298
- stability**
A new laser-driven stable implosion scheme, 1. (A14). 464516
- streak photography**
X-ray streak-camera study of the dynamics of laser-imploded microballoons. (B12, A14). 475986
- target chambers**
Conceptual design considerations and neutronics of lithium fall laser target chambers. (A14). 475088
- targets**
Comments on the paper by R.C. Kirkpatrick 'An overview of design space for small fusion targets', Nucl. Fusion 19(1) (1979) 69-79. (A14). 483398
The KMSF laser fusion programme. (A14). [Data] 483310
Laser-fusion pellet injection accuracies, accelerations, and deflections. (A14). 462309
Reply to the Comments by Seifritz on the paper by R.C. Kirkpatrick 'An overview of design space for small fusion targets', Nucl. Fusion 19(1) (1979) 69-79. (A14). 483359
Scaling laws for exploding pusher targets. (A14). 489089
- thermonuclear fuels**
Effect of crater formation on the absorption of focused laser light. (A14). 464450
- vacuum systems**
Shiva and Argus target diagnostics vacuum systems. (A14). 475023
- x radiation**
X-ray shadowgraphy of dense-cool microballon implosions. (A14). 478020
- x-ray spectra**
Explosive-pusher-type laser compression experiments with neon-filled microballoons. (A14). 475159
- x-ray spectroscopy**
Review of recent progress in laser plasma interaction and laser compression work at the Science Research Council Rutherford Laboratory Central Laser Facility. (A14). 471673
- LASER ISOTOPE SEPARATION:**
(A laser photon beam selectively excites or ionizes one of the isotopes which can then be isolated by electromagnetic, chemical, or other methods.)
Chemical and biochemical applications of lasers, Volume 3, 1977. (D13, D11, B12; Book). 487782
Improvement in isotopes separation technique by acceleration. (D11, D13; laser). 473543
Isotopically selective condensation of gases. (D11, D13). 482501
Method for separation and enrichment of lithium isotopes by laser. (D13; Patent). 480289
Reliable high average power dye laser. (D13). 461449
Research on frequency shifting of ultraviolet lasers. Final report, June 23, 1977 - May 23, 1978. (D13). 466445
Resonantly enhanced four-wave mixing. (D13; Patent). 470227
Separating isotopes by laser. (D13, D11). 491391
Uranium isotope separation method. (D11). 484770
- azines**
Production of isotopically pure molecules by dye laser excitation. (B12). 460443
- beam monitoring**
A system for correcting the alignment of a laser beam. (D11; intended for laser isotope enrichment). 470219
- boron 10**
Isotope separation by photomigration. (B12). 472468
- chemical lasers**
High power 12.08 μm NH_3 laser. (A12). 471366
- dissociation**
Isotopic separation by photopredissociation. (D13). 461451
- energy spectra**
Spectra of individual molecular isotopes in an unseparated natural mixture. (B12). 460442
- gaseous diffusion process**
Laser alteration of accommodation coefficient for isotope separation. (D13). 461450
- hydrogen isotopes**
Separation of hydrogen isotopes. (D13). 494655
- infrared radiation**
Method of separating uranium isotopes using infrared rays. (D11). 473550
- isomerization**
Photochemistry in the electronic ground state. Isotope separation by infrared multiphoton isomerization of complex molecules. (B12). 490424
- isotope dating**
Extending the radiocarbon calendar. (B31). 484344
- lasers**
Research on nonlinear infrared processes for laser isotope separation and laser development. (D11, A14). 487772
- photochemistry**
Laser selective photophysics and photochemistry. (B12). 476006
- photoionization**
Separation and enrichment of isotopes using laser photochemistry - fundamentals and perspectives. (B13). 462761
- research programs**
Calculations on isotope separation by laser induced photodissociation of polyatomic molecules. Final report. (B12, D11). 460488
Laser program annual report, 1977. Volume 2. (A14, B12, D13, D11). 485661
Progress in laser enrichment at Los Alamos. (D11). 487763
- reviews**
Laser isotope separation. (D13, D11). 482503
- uranium compounds**
Method to separate uranium isotopes. (D11). 487775
- uranium fluorides**
Process and device for isotope enrichment. (D11). 482500
- uranium isotopes**
Isotopically selective photoexcitation. (D13). 494654
Method and apparatus for separation of ions from a plasma. (D11). 461440
- uranium 235**
Isotope separation utilizing Zeeman compensated magnetic extraction. (D11). 461438
Selective ionization system. (D11). 461442
- uranyl compounds**
Isotope preparation process and suitable transient uranyl compounds for this process. (D11). 482497
- LASER MIRRORS:**
- beam monitoring**
A system for correcting the alignment of a laser beam. (D11; intended for laser isotope enrichment). 470219
- fabrication**
Analysis of diamond-turned reflective optics. (A14). 475017
- stresses**
Mechanical deflection analysis of diamond turned reflective optics. (A14). 492833
- substrates**
Plated copper substrates for the LASL Antares CO_2 laser system. (A14). 481176
- LASER RADIATION:**
- absorption**
Absorption and ion emission from laser produced plasmas. (A14). 478053
Absorption of focused laser beams by a nonspherical plasma. (A14). 459974
Correspondence principle in multiphoton inverse bremsstrahlung. (A14). 481185
Interaction studies at different wavelengths. (A14). 478032
On the laser radiation absorption in a plasma with the density smaller than the critical one. (A14; Al, Cu, $(\text{CH}_3\text{sub}(2))\text{sub}(n)$, Pb targets). 477970
Reflectance measurements on laser produced plasmas at different wavelengths. (A14). 478113
- alignment**
Laser fusion target alignment by Hartmann mask method. (A14). 475109
- aluminium 27 target**
Works on laser-matter interaction at the Centre d'Etudes de Limeil. (A14). 467528
- attenuation**
The KMSF laser fusion programme. (A14). [Data] 483310
- beam monitoring**
Laser control of proton-beam parameters. (A12). 474612
- brillouin effect**
Saturation of stimulated Brillouin backscatter in CO_2 -laser-plasma interaction. (A14). [Data] 464428
- diffraction**
Micro-fresnel structures for microscopy of laser generated bright x-ray sources. (A32). 493130
- electromagnetic interactions**
Review of recent progress in laser plasma interaction and laser compression work at the Science Research Council Rutherford Laboratory Central Laser Facility. (A14). 471673
- electron beams**
Electron-beam pumped XeCl excimer laser. (A14). [Data] 481206
- elliptical configuration**
Nonlinear propagation of an elliptically shaped Gaussian laser beam in an overdense plasma. (A14). [Data] 489277
- emission spectroscopy**
Single micro-particle and atomic particle detection. (E41). 461847
- gravitational interactions**
General-relativistic treatment of the gravitational coupling between laser beams. (A21, A11). 489878
- laser-produced plasma**
Study on the spectral-time and angular characteristics of radiation, scattered by a laser plasma. (A14). 478054
- maximum permissible exposure**
The calculation of maximum permissible exposure levels for laser radiation. (C55). 491259

- optical systems**
Potassium terbium fluoride crystal growth development for faraday rotator discs fabrication, 6 July 1978-6 February 1979. (A14). 492816
- particle production**
Resonant laser induced negative ion production. (A12). 477795
- photoionization**
The time dependence of two-photon ionisation. (A11). 488674
- plasma**
The KMSF laser fusion programme. (A14). [Data] 483310
- plasma acceleration**
Acceleration of macroparticles by laser light. (A14). [Data] 483317
- plasma diagnostics**
Thomson scattering at 10^9 on the Texas Turbulent Torus. (A14). [Data] 471703
- polyethylenes**
Experimental studies of interaction and transport processes in laser fusion. (A14). 483295
- potential scattering**
Charged-particle potential scattering in the simultaneous presence of a magnetic and a laser field. (A11). 488599
- pulse analyzers**
Ultrashort laser pulse analysis of multiphoton fluorescence. (E41). 466755
- rabbis**
Healing of argon laser lesions of the rabbit iris. (C14). 490949
- radiation detection**
Sensitivity of cw and pulsed laser-pumped Pr infrared quantum counters. (E41). 492069
- radiation protection**
Protection against laser beams. (C55, C15). 484697
- reflection**
Comparative reflectance measurements on laser-produced plasmas at 1.06 and 0.53 μm . (A14). 489252
- research programs**
Annual report to the Laser Facility Committee 1979. (A14). 489331
- resonance absorption**
Comparative reflectance measurements on laser-produced plasmas at 1.06 and 0.53 μm . (A14). 489252
- Effect of crater formation on the absorption of focused laser light. (A14). 464450
- Experimental test of resonant absorption theory. Progress report, October 1, 1978-December 31, 1978. (A14). 464517
- High absorption of laser light in target plasma with plateau-ramp type density profile. (A14). 471685
- solid state lasers**
The interaction of the laser radiation with the active amplifying medium. (A14). 489152
- spectroscopy**
Time resolved laser spectroscopy: quantum beats and superradiance. (A12). 477755
- targets**
Acceleration of macroparticles by laser light. (A14). [Data] 483317
- Review of recent progress in laser plasma interaction and laser compression work at the Science Research Council Rutherford Laboratory Central Laser Facility. (A14). 471673
- thomson scattering**
Thomson scattering at 10^9 on the Texas Turbulent Torus. (A14). [Data] 471703
- wave propagation**
Nonlinear propagation of an elliptically shaped Gaussian laser beam in an overdense plasma. (A14). [Data] 489277
- Nonlinear propagation of laser radiation in an inhomogeneous plasma. (A14). 485823
- waveguides**
Transmission of free-running laser pulses of high energy and power densities through previously gamma-radiated fiber waveguides. (B25). 490732
- LASER WELDING:**
High power laser beam welding. (B22). 460715
- molybdenum**
Dependence of fracture toughness of molybdenum laser welds on dendritic spacing and in situ titanium additions. (B22). 486889
- LASER-PRODUCED PLASMA:**
Recent thermonuclear fusion research at I.P.P.L.M. (A14). 478086
- System for the production of plasma. (A14; Patent). 467499
- ablation**
Structure and observable characteristics of laser driven ablation. (A14). 464409
- absorption spectra**
Laser fusion implications of resonance absorption and associated electrostatic field pressure. (A14). [Data] 483332
- backscattering**
Stimulated Brillouin backscattering losses in weakly inhomogeneous laser-produced plasmas. (A14). 471635
- breakdown**
Contribution to the study of the plasmas created by ultra-short optical breakdown in gases. (A14). 471648
- brillouin effect**
Brillouin backscatter dependence upon pulse amplitudes, timing, target material and geometry. (A14). 489313
- Brillouin backscatter dependence upon pulse amplitudes, timing, target material, and geometry. (A14). 478154
- Brillouin scattering from CO_2 laser plasmas in strong transverse magnetic fields. (A14). 483357
- Stimulated Mandelstam-Brillouin scattering in a plasma with supersonic particle drift. (A14). 478099
- Stimulated scattering of light by ion modes in a homogeneous plasma: Space-time evolution. (A14). 478017
- charged-particle transport**
Computational studies of fast particle processes in a laser-generated plasmas. (A14). 477995
- Double-diffusion hot-electron transport in self-consistent E and B fields. (A14). [Data] 464406
- Electron transport in laser plasmas. (A14). 478117
- compression**
Study on the compression of shell targets irradiated by a laser pulse of nanosecond duration. (A14). 478168
- Study on the hydrodynamic stability of laser target compression. (A14). 478044
- Theoretical analysis and similarity relations of the physical processes in laser compression of shell targets. (A14). 477965
- Theoretical studies on the compression and burning of shell targets. (A14). 477966
- confinement**
Laser plasmas and magnetic confinement. (A14). 478174
- Magnetic mirror confinement of laser-produced LiH plasmas. (A14). 467703
- cusped geometries**
RF plugging of laser-produced plasma in a cusp field. (A14). [Data] 464460
- data acquisition**
Laser program annual report, 1977. Volume 1. (A14). 485660
- decay instability**
Two-plasmon decay and profile modification produced by 10.6- μm radiation at quarter-critical density. (A14). 467501
- density**
Compression measurements of neon-seeded glass microballoons irradiated by CO_2 -laser light. (A14). [Data] 464415
- differential equations**
Stochastic (white noise) analysis of resonant absorption in laser generated plasma. (A14). 478037
- electromagnetic fields**
Wave absorption and superreflectivity of laser plasmas due to electromagnetic structure resonances. (A14). 483396
- electromagnetic radiation**
Relative role of different mechanisms of light absorption in a laser plasma. (A14). 477976
- electron density**
The determination of laser plasma electron density by K spectra of multicharged ions. (A14). 477997
- Gradient density measurement in laser-plasma interaction. (A14). 467504
- electron emission**
Emission of energetic electrons from a Nd-laser-produced plasma. (A14). 464246
- High-energy electron acceleration by ponderomotive forces in tenuous plasmas. (A14). 477999
- electron temperature**
Analysis of the Z dependence of laser generated suprathermal electron temperature. (A14). 489319
- Estimation of temperature and fractions of superthermal electrons in laser produced plasmas. (A14). 492764
- High temperature facility for atomic physics studies. Final report. (A10, A14). 474403
- emission spectra**
Recent observations and classifications of iron group spectra at 11A in laser produced plasma. (A12). 464094
- The spectrum of harmonic emission from a laser produced plasma near to threshold. (A14). 478038
- energy**
Measurement of ion temperature and expansion energies in laser produced plasmas. (A14). 492770
- energy transfer**
Absorption of laser radiation by Al, Fe, and Au planar metallic targets. (A14). 485649
- Energy absorption in plasmas produced by intense 10- μm laser radiation. (A14). 489368
- Laser-beam characteristics of Phoenix, an HF oscillator-amplifier system. (A14). 478141
- extreme ultraviolet radiation**
XUV spectroscopic studies of a carbon laser produced plasma. (A14). [Data] 471686
- flow models**
Flow modes and analysis of heat waves. (A14). 489090
- fuel pellets**
Injection of a solid hydrogen pellet into the L-2 stellarator. (A14). 464298
- fusion yield**
Mathematical simulation thermonuclear particle kinematics in a laser plasma by the Monte Carlo method. (A14). 478009
- harmonics**
Intensity dependence of harmonic generation in 10- μm laser-produced plasmas. (A14). 467500
- Spectral analysis of backreflected light and harmonic generation in a CO_2 laser-target interaction experiment. (A14). 459898
- Study on the $2\omega_0$ harmonic generation in a laser plasma. (A14). 477989
- heat transfer**
Magnetic field generation and heat transfer in a plasma corona. (A14). 477998
- holography**
Pseudoholography using zone plates. (A14). 464331
- hot spots**
The significance of the distribution of hot-spots on the interpretation of laser produced plasma experiments. (A14). 492763

- hydrodynamics**
 Hydrodynamics of laser thermonuclear target "corona". (A14). 477968
 Laser induced plasma in super pressure gases. (A14). 489104
 Liquid particle method for the calculation of one-dimensional hydrodynamics of a laser plasma. (A14). 478081
- inertial confinement**
 Thermonuclear fusion by laser. (A14). 489143
- interferometry**
 Density scale length measurements in laser produced plasmas. (A14). 478034
 Use of the shift interferometers in the investigations of a laser plasma corona dynamics. (A14). 478195
- ion emission**
 Absorption and ion emission from laser produced plasmas. (A14). 478053
 Child's law for fast ion emission from a laser-generated plasma. (A14). 474993
 Energy spectrum and ion spread directivity of a plasma of spherical targets, irradiated by intense laser radiation. (A14). 477990
- ion temperature**
 Measurement of ion temperature and expansion energies in laser produced plasmas. (A14). 492770
- ionization**
 Effect of incomplete ionization on the determination of scaling laws in laser produced plasmas. (A14). 492765
- ions**
 Fast ions in laser-produced plasma. (A14). 483297
 Quantitative measurements of fast ions from CO₂ laser-produced plasmas. (A14). 478079
- isoelectronic atoms**
 Identification of spectral lines of ions belonging to the F I isoelectronic sequence with nuclear charge $Z = 26-30, 32$ and 34 from laser-produced plasmas. (A14). 489109
- laser implosions**
 Explosive-pusher-type laser compression experiments with neon-filled microballoons. (A14). [Data] 483316
 Magnetic-field generation in plasma implosions due to Nernst refrigeration. (A14). 478004
- laser radiation**
 CO₂ laser light absorption by a dense plasma. (A14). 478033
 Enhancement of resonance absorption caused by density modifications and induced magnetic field. (A14). 478139
 Nonlinear forces, solitons and self focusing in laser irradiated plasmas for optimized fusion. (A14). 478070
 Resonance absorption in a laser plasma with a deformed density profile. (A14). 478048
 Spherical target hydrodynamics taking into account laser radiation refraction. (A14). 477967
 Target interaction studies with the high power iodine laser. (A14). 478035
- laser-radiation heating**
 Effect of laser radiation characteristics on parameters of a heated plasma. (A14). 478188
 Experimental study on the products of laser plasma spread. (A14). 478010
- line broadening**
 Study of the plasma broadening of spectral lines of hydrogenic ions. (A14). [Data] 471680
- line widths**
 Studies of spectral line shapes emitted by highly stripped ions in laser-produced Ultra-dense plasmas. (A14). 478107
- loss cone instability**
 Magnetic mirror confinement of laser-produced LiH plasmas. (A14). 467703
- lyman lines**
 Effect of fine-structure splitting on the shape of the Lyman α line profile on high- z emitters in ultra dense plasmas. (A14). 483366
- magnetic fields**
 Comments on "Self-generated magnetic fields in laser-produced plasmas for metallic targets". (A14). 467540
 Generation and dissipation of magnetic fields in a laser plasma. (A14). 478045
 Magnetic field generation and heat transfer in a plasma corona. (A14). 477998
 Magnetic instability of laser-produced plasma and spontaneous generation of magnetic fields. (A14). 489085
 Magnetic-field generation in plasma implosions due to Nernst refrigeration. (A14). 478004
 Observations consistent with self-generated magnetic fields in CO₂ laser-produced plasmas. (A14). 489146
 On the possibility of magnetic field diagnostics in a laser plasma according to the spectral composition of scattered radiation. (A14). 481222
 Perspective on self-generated magnetic fields. (A14). 464478
 Self-generated magnetic fields in laser produced plasmas. (A14). 489376
- Study on the mechanism of spontaneous magnetic field generation in a laser plasma. (A14). 478095
 To the theory of generation of spontaneous magnetic fields in a plasma under the action of intense electromagnetic radiation. (A14). 477961
- Two-dimensional distribution of self-generated magnetic fields near the laser-plasma resonant-interaction region. (A14). 478160**
- materials handling**
 Laser Fusion: status, future, and tritium control. (A14). 464288
- momentum transfer**
 Momentum measurements and nonlinear effects in laser produced plasma. (A14). 467496
- multicharged ions**
 Experimental studies on multiply-charged ions. (A14). 467488
 Identification of spectral lines of ions belonging to the F I isoelectronic sequence with nuclear charge $Z = 26-30, 32$ and 34 from laser-produced plasmas. (A14). 489109
 Spectroscopic studies of level-populations in laser-irradiated target experiments. (A14). 478143
 Study on the multicharged ions of a laser plasma. (A14, E16; C, Mg, Al, Ti, Co, Cu multicharged ions. Cu-Be and Al targets). 474930
- neodymium lasers**
 Debye-length discrimination of nonlinear laser forces acting on electrons in tenuous plasmas. (A14). 478000
- nernst effect**
 Magnetic-field generation in plasma implosions due to Nernst refrigeration. (A14). 478004
- parametric instabilities**
 Momentum measurements and nonlinear effects in laser produced plasma. (A14). 467496
- plasma density**
 Impact of nonequilibrium ionization and recombination processes on the evaluation of laser-produced plasmas. (A14). 467620
 Laser plasma density profile modification by ponderomotive force. (A14). 459888
 Review of recent progress in laser plasma interaction and laser compression work at the Science Research Council Rutherford Laboratory Central Laser Facility. (A14). 471673
- plasma diagnostics**
 Active spectroscopy of a "cold" magnetized plasma. (A14). 478007
 The determination of laser plasma electron density by K spectra of multicharged ions. (A14). 477997
 A diagnostic system for laser produced plasmas. (A14). 492727
 Impact of nonequilibrium ionization and recombination processes on the evaluation of laser-produced plasmas. (A14). 467620
 Intensified CCD for ultrafast diagnostics. (A14). 485676
 Interferometric characterization of density dynamics of an ultradense Z-pinch plasma. (A14). 477962
 Laser program annual report, 1977. Volume 1. (A14). 485660
 Measurement of fast-electron energy spectra and preheating in laser-irradiated targets. (A14). 485731
 Measurement of return current in a laser-produced plasma. (A14). 477992
- Optical probing of laser produced plasmas at high irradiances. (A14). 478150
 Photographic materials for detection of ultraviolet and soft x radiations and their application to thermonuclear laser plasma diagnostics. (A14). 477996
 Soft X-ray diagnostics of CO₂ laser-produced magnetoplasmas. (A14). 483370
 Study on the interaction of a power light radiation with a superdense plasma on the "Kalmar" laser installation. (A14). 475127
- X-ray emission from laser heated plasmas. (A14). 478052
- plasma expansion**
 Ion acceleration in an expanding rarefied plasma with non-Maxwellian electrons. (A14). 478059
 Some new results about ion expansion in laser produced plasmas. (A14). 478130
- plasma heating**
 Experimental study of development and heating of a plasma column by the energy of CO₂ laser radiation. (A14). 467541
- plasma instability**
 Features of laser plasma physics while developing processes in the sharpening regime. (A14). 478036
 Fine-scale structures in plasmas stimulated by a CO₂ laser. (A14). 467557
 Magnetic instability of laser-produced plasma and spontaneous generation of magnetic fields. (A14). 489085
 Qualitative aspects of underdense magnetic fields in laser-fusion plasmas. (A14). 467543
- plasma simulation**
 Numerical experiment in the LTF. Problems and perspectives. (A14, F51). 478161
 Physical-mathematical models of laser target processes and numerical methods of their investigation. (A14, F51). 477964
 Qualitative aspects of underdense magnetic fields in laser-fusion plasmas. (A14). 467543
- plasma waves**
 Cold plasma wavebreaking in the presence of an electromagnetic driver. (A14). 464477
 Two-plasmon decay and profile modification produced by 10.6- μ m radiation at quarter-critical density. (A14). 467501
- radiation pressure**
 Pressure ionization in laser-fusion target simulation. (A14). 460020
- rayleigh-taylor instability**
 Magnetic field generation by the Rayleigh-Taylor instability. (A14). 467630
- recombination**
 Recombination of a fast expanding plasma. (A14). [Data] 485800
- research programs**
 Laser fusion - Present status. (A14). 485663
- resonance absorption**
 Electron- and ion-beam transportation channel formation by laser ionization based on resonance saturation: LIBORS. (A14). 478119
 Resonance absorption and field structures in laser plasmas. (A14). 471678
- rf systems**
 RF plugging of laser-produced plasma in a cusp field. (A14). [Data] 464460

- scaling laws**
Effect of incomplete ionization on the determination of scaling laws in laser produced plasmas. (A14). 492765
model calculations of XUV gain in rapidly expanding cylindrical plasmas. (A14). 489301
Scaling laws for plasma production and pellet acceleration by laser. (A14). 459947
The significance of the distribution of hot-spots on the interpretation of laser produced plasma experiments. (A14). 492763
- scattering**
CUPID: a ray-tracing program for continuously varying refracting media. (A14). 489196
- schlieren method**
Density scale length measurements in laser produced plasmas. (A14). 478034
- shock waves**
Beam re-entry into a laser-created plasma. (A14). 471672
Formation, propagation and structure of laser supported detonation waves and their effect on laser-target interactions. (A14). 460001
Laser-driven hydrodynamic perturbation in an overdense Z-pinch plasma. (A14). 477963
Turbulent interaction fronts in counterstreaming laser-produced plasma studies. (A14). 467595
- simulation**
Transport inhibition implied by density profile flattening in the corona of laser-heated microspheres. (A14). 477991
- soft x radiation**
Main aspects of atomic physics in dense plasmas. (A14). 471663
- spatial distribution**
Transient heating of metals by Microsecond-duration CO₂ laser pulses with air plasma ignition. (A14). 489258
- spectroscopy**
Space resolved spectroscopic observations of laser produced plasmas. (A14). 478074
Stigmatic observations of laser-produced plasmas with a grazing incidence spectrograph. (A14). 478075
- targets**
Turbulent mixing effect on laser target compression. (A14). 464239
- temperature measurement**
Experimental study of the variation of the plasma temperature with the laser flux. (A14). 481228
- thermonuclear ignition**
Theoretical studies on the compression and burning of shell targets. (A14). 477966
- thermonuclear reactions**
Laser induced fusion - theoretical aspects. (A14). 481204
- traps**
Plasma production and heating by glass-CO₂-hybrid laser system for magnetic traps. (A14). [Data] 464459
- turbulence**
Turbulent interaction fronts in counterstreaming laser-produced plasma studies. (A14). 467595
- ultraviolet spectra**
XUV spectroscopic studies of a carbon laser produced plasma. (A14). [Data] 471686
- uses**
Laser ion sources. (A12, E16). 483148
- wave propagation**
Beam re-entry into a laser-created plasma. (A14). 471672
- x radiation**
Bremsstrahlung and recombination radiation from glass targets. (A14). 478189
X-ray emission from picosecond laser plasmas. (A14). 478029
X-ray studies in neodymium-laser plasma. (A14). 478073
- x-ray spectra**
Classification of x-ray spectra of 2-3 transitions in the Ne-like and Na-like isoelectronic sequences of the elements from krypton to molybdenum. (A14, A12). [Data] 462323
Explosive-pusher-type laser compression experiments with neon-filled microballoons. (A14). [Data] 483316
Modeling emission spectra from CO₂-laser produced plasmas. (A14). 478050
Superthermal x-ray emission from CO₂-laser-produced plasmas. (A14). 489151
Time-resolved high-energy x-ray spectra of laser-irradiated targets. (A14). [Data] 464393
Time-resolved suprathermal x-rays. (A14). 467602
X-ray spectra of Y XXXI and Mo XXXIV ions from laser-produced plasmas. (A14). 462280
X-ray spectroscopy in plasma produced by laser. (A14). 467609
- x-ray spectroscopy**
Investigation of the interaction of high intensity laser light with solids and hot plasma using X-ray spectroscopic technique. (A14, A13). 478196
- LASER-RADIATION HEATING:**
Screening effect on the plasma heating by inverse bremsstrahlung. (A14). 478110
Study on the laser controlled thermonuclear fusion on the "Delfin" and "Kalmar" devices. (A14). 478171
- anisotropy**
Qualitative aspects of underdense magnetic fields in laser-fusion plasmas. (A14). 467543
- annealing**
Laser annealing of capped and uncapped GaAs. (B25). 490730
Realization of p-n junction solar cells by an ion implantation doping procedure. (E41). 482845
- carbon dioxide lasers**
High field laser heated solenoids. (A14). 483352
- flow models**
Flow modes and analysis of heat waves. (A14). 489090
- foils**
Experimental studies on the acceleration of thin foils, simulating target shells for laser thermonuclear fusion. (A14). 481178
- magnetohydrodynamics**
Theoretical studies of the radiation-hydrodynamics of dense, laser-heated plasmas. (A14). 459890
- mathematical models**
High-intensity laser-matter coupling in a vacuum. (A14). 489282
- parametric instabilities**
Generation of parametric instabilities in laser heating of theta-pinch and solenoid plasmas. (A14). 462346
- perturbation theory**
Heating of a collisionless turbulent plasma by multiphoton absorption. (A14). 485756
- poland**
Recent thermonuclear fusion research at I.P.P.L.M. (A14). 478084
- resonance absorption**
Qualitative aspects of underdense magnetic fields in laser-fusion plasmas. (A14). 467543
- scaling laws**
Scaling law of plasma temperature versus laser flux. (A14). 485810
- solenoids**
High field laser heated solenoids. (A14). 483352
- targets**
Calculations of spherical laser targets illumination symmetry. (A14). 492845
Target design at Los Alamos. (A14). 478116
Technology of solid-fuel-layer targets for laser-fusion experiments. (A14). 467634
- traps**
Plasma production and heating by glass-CO₂-hybrid laser system for magnetic traps. (A14). [Data] 464459
- LASERS:**
(Light Amplification by Stimulated Emission of Radiation)
See also CARBON DIOXIDE LASERS; CHEMICAL LASERS; DYE LASERS; GAS LASERS; NEODYMIUM LASERS; SEMICONDUCTOR LASERS; SOLID STATE LASERS
- alignment**
Principles of alignment of multi-beam lasers for thermonuclear purposes. (A14). 474950
- chemical reaction kinetics**
Inelastic molecular collisions: applications of theoretical methods to problems in relaxation phenomena, laser operation, and combustion kinetics. Progress report, February 1 - November 1, 1978. (A12; Summaries of research activities at the University of Wisconsin). 474570
- chemistry**
Chemical and biochemical applications of lasers, Volume 3, 1977. (D13, D11, B12; Book). 487782
- excited states**
Phase conjugation using gain saturation of a Nd : YAG laser. (A14). 464500
- fabrication**
Method for producing small hollow spheres. (B12; Patents). 486608
- focusing**
Focusing system of the "Delfin" power laser device with automatic guidance. (A14). 478030
- frequency converters**
Research on frequency shifting of ultraviolet lasers. Final report, June 23, 1977 - May 23, 1978. (D13). 466445
- kinetics**
Phase conjugation using gain saturation of a Nd : YAG laser. (A14). 464500
- laser implosions**
Intense lation-matter interaction studies at the laboratory for laser energetics planning and progress. (A14). 478111
- laser-radiation heating**
Amplifier module with a series-parallel system for high-aperture composite beam shaping in the "Delfin" device for a thermonuclear spherical target heating. (A14). 477988
- materials testing**
Materials problems with inertial confinement fusion targets. (A14). 462315
- meetings**
Program and abstracts. (A13, E13; Buffalo, New York, October 17-20, 1978). 492695
- mirrors**
Handbook of optical testing methods for diamond-turned mirrors. (E42). 471018
- nuclear industry**
Development of laser devices of interest for nuclear application in Iran. (F61). 466979
- nuclear pumping**
Advanced laser fusion concepts using neutron feedback. (A14). 478124
- optical systems**
Influence of nonlinear effects of passive optical elements of the "Del'fin" device on the irradiation of a spherical target. (A14). 478100
Laser fusion project second annual report. (A14, B23). 464301
Lens positioner with five degrees of freedom. (A14; Patent). 467592
Special optics for laser compression. (A14). 489320
- performance**
Advanced lasers for fusion applications. (A14). 485759
- quantum mechanics**
Strong wave amplification by electron scattering in a spatially periodic magnetic field. (A11). 488595

| | |
|---|--------|
| research programs | |
| Laser Fusion Program at LASL. Progress report, July 1 - December 31, 1977. (A14). | 481229 |
| targets | |
| Cooling of DT and T ₂ cryogenic pellets within very low density plastics and by helium. (B12). | 486591 |
| Double-shelled target simulations with LASNEX. (A14). | 485771 |
| Existence and lifetime of laser fusion pellets containing tritium. (B12). | 486590 |
| Fusion target design. (A14). | 485659 |
| Investigation on fabrication and positioning of cryogenic shell laser fusion targets. Annual report, October 1, 1977 - November 30, 1978. (A14, B12). | 485755 |
| Laser program annual report, 1977. Volume 2. (A14, B12, D13, D11). | 485661 |
| Laser-plasma coupling. (A14). | 475071 |
| Magnetic confinement system using charged ammonia targets. (A14; Patent). | 489306 |
| Magnetron sputter coating of microspherical substrates. (A14). | 475076 |
| Method for producing small hollow spheres. (B12; Patents). | 486608 |
| Method of mounting a fuel pellet in a laser-excited fusion reactor. (A14; Patent). | 489189 |
| Power plant production of inertial confinement fusion targets. (B12). | 475961 |
| Temporally and spatially resolved harmonic emission from spherical laser fusion targets. (B12, A14). | 486629 |
| LASL: | |
| environment | |
| Environmental surveillance at Los Alamos. (B33, B31, B32, C52). | 479705 |
| [Data] | |
| nuclear materials management | |
| DYMAC computer system. (F41). | 488463 |
| Inventory and verification of stored nuclear materials. (F41; DOE). | 471151 |
| quality control | |
| Multilaboratory analytical quality control for the hydrogeochemical and stream sediment reconnaissance. Quality control report for September 1978. (B31). | 460839 |
| radiation monitoring | |
| Environmental surveillance at Los Alamos. (B33, B31, B32, C52). | 479705 |
| [Data] | |
| radioactive waste disposal | |
| Shallow land burial: experience and developments at Oak Ridge and Los Alamos. (E52). | 495231 |
| radioactive waste facilities | |
| Formerly utilized MED/AEC sites remedial action program. Removal of a contaminated industrial waste line, Los Alamos, New Mexico. Final report. (C54, E50). [Data] | 480176 |
| radioactive wastes | |
| Review of radioactive liquid waste management at Los Alamos. (E50). | 474169 |
| research programs | |
| E-Division semiannual report. Progress report, July 1 - December 31, 1978. (E13). | 494702 |
| Neutron physics at LASL. (A34, E16). | 468507 |
| LASL COLD CRITICAL ASSEMBLY: | |
| <i>See PLASMA CORE ASSEMBLY</i> | |
| LATE RADIATION EFFECTS: | |
| <i>See DELAYED RADIATION EFFECTS</i> | |
| LATENT HEAT OF VAPORIZATION: | |
| <i>See VAPORIZATION HEAT</i> | |
| LATTICE FIELD THEORY: | |
| String representations and hidden symmetries for gauge fields. (A11). | 483095 |
| Time evolution in equilibrium states without time automorphism. (A11). | 459692 |
| cluster expansion | |
| Uniform cluster estimates for lattice models. (A11). | 467083 |
| duality | |
| Self-dual Z(N) gauge theories. (A11). | 483011 |
| gauge invariance | |
| Extrapolation of lattice gauge theories to the continuum limit. (A11). | 488591 |
| Gauge fields on a lattice (selected topics). (A11). | 492385 |
| Hamiltonian approach to Z(N) lattice gauge theories. (A11). | 488631 |
| A map between corner and link operators in lattice gauge theories. (A11). | 467013 |
| Multiple vacua for non-Abelian lattice gauge theories. (A11). | 474415 |
| Phase structure of discrete Abelian spin and gauge systems. (A11). | 488593 |
| Quark confinement in the two-dimensional lattice Higgs-Villain model. (A21). | 468085 |
| Self-dual Z(N) gauge theories. (A11). | 483011 |
| hamiltonians | |
| Estimating eigenvalues for lattice hamiltonian models. (A11). | 471243 |
| Hamiltonian approach to Z(N) lattice gauge theories. (A11). | 488631 |
| heisenberg model | |
| The quantum mechanics of the gauge-invariant O(2) Heisenberg model. (A11). | 483034 |
| higgs model | |
| Diamagnetic and critical properties of Higgs lattice gauge theories. (A11, A21). | 483006 |
| On the problem of theta-vacua in compact gauge theories. (A11). | 483120 |
| Phase diagrams of lattice gauge theories with Higgs fields. (A21, A11). | 489782 |
| ising model | |
| Experiments with a gauge-invariant Ising system. (A11). | 488578 |
| magnetic monopoles | |
| Z ₂ monopoles in the standard SU(2) lattice gauge theory model. (A21). | 475608 |
| phase diagrams | |
| Phase diagrams of lattice gauge theories with Higgs fields. (A21, A11). | 489782 |
| quantum electrodynamics | |
| On the problem of theta-vacua in compact gauge theories. (A11). | 483120 |
| su groups | |
| Confinement in Zsub(n) lattice gauge theories implies confinement in SU(n) lattice Higgs theories. (A21). | 483639 |
| su-2 groups | |
| Extrapolation of lattice gauge theories to the continuum limit. (A11). | 488591 |
| transfer matrix method | |
| A new method of partition function calculation for some lattice models. (A11). | 492495 |
| u-1 groups | |
| Extrapolation of lattice gauge theories to the continuum limit. (A11). | 488591 |
| vacuum states | |
| Multiple vacua for non-Abelian lattice gauge theories. (A11). | 474415 |
| LATTICE PARAMETERS: | |
| binary alloy systems | |
| Preparative and structural investigations in the systems Na-Sn and Li-Na-Sn. (B12). [Data] | 486678 |
| measuring methods | |
| Accurate measurement of lattice parameters using a Bragg-Brentano X-ray diffractometer applied to neutron irradiated silicon carbide. (E35). | 491960 |
| ternary alloy systems | |
| Preparative and structural investigations in the systems Na-Sn and Li-Na-Sn. (B12). [Data] | 486678 |
| LATTICE VIBRATIONS: | |
| inelastic scattering | |
| Study of lattice dynamics in NaCl and RbBr using inelastic neutron scattering. (A13). | 477927 |
| manganese compounds | |
| Neutron scattering from (CD ₃ ND ₃) ₂ MnCl ₄ . (A13). | 464189 |
| LATTICES (CRYSTAL): | |
| <i>See CRYSTAL LATTICES</i> | |
| LATTICES (REACTOR): | |
| <i>See REACTOR LATTICES</i> | |
| LAUE-BRAGG SCATTERING: | |
| <i>See BRAGG REFLECTION</i> | |
| LAVA: | |
| advection | |
| On the importance of advection in determining the local isotopic composition of the mantle. (B31). | 484359 |
| age estimation | |
| K/Ar geochronology and evolution of the tertiary 'calc-alkalic' volcanism of Sardinia (Italy). (B31). | 476454 |
| chemical composition | |
| Trace element and strontium isotope characteristics of volcanic rocks from Isla Tortuga: a young seamount in the Gulf of California. (B31). | 484336 |
| isotope dating | |
| Sm-Nd dating of Onverwacht Group Volcanics, Southern Africa. (B31). | 476422 |
| isotope ratio | |
| On the importance of advection in determining the local isotopic composition of the mantle. (B31). | 484359 |
| Oxygen isotopes and the origin of high- ⁸⁷ Sr/ ⁸⁶ Sr andesites. (B31). | 460860 |
| Trace element and strontium isotope characteristics of volcanic rocks from Isla Tortuga: a young seamount in the Gulf of California. (B31). | 484336 |
| LAVAGE: | |
| (Washing out of hollow organ by copious injections and rejections of water.) | |
| efficiency | |
| Influence of lavage therapy on the distribution patterns of inhaled, relatively insoluble particles in the lung. (C21). | 469792 |
| response modifying factors | |
| Alteration by lung lavage of the biological effects from inhalation of a relatively insoluble form of ¹⁴⁴ Ce by beagle dogs. (C21). | 469779 |
| therapy | |
| Influence of lavage therapy on the distribution patterns of inhaled, relatively insoluble particles in the lung. (C21). | 469792 |
| LAVES PHASES: | |
| dielectric properties | |
| Dielectric phase transitions in the superconducting C15 compounds ZrV ₂ and HfV ₂ . (B22, A17). | 472665 |
| hydrides | |
| Hydride properties of AB ₂ Laves phase compounds. (B22). | 472679 |
| superconductivity | |
| Dielectric phase transitions in the superconducting C15 compounds ZrV ₂ and HfV ₂ . (B22, A17). | 472665 |
| LAW: | |
| <i>See also ATOMIC ENERGY LAW; LICENSING REGULATIONS; MAXIMUM ACCEPTABLE CONTAMINATION; PRICE-ANDERSON ACT; RADIATION PROTECTION LAW; REGULATIONS; SAFEGUARD REGULATIONS; TRANSPORT REGULATIONS; US NATL ENVIRONMENT POLICY ACT</i> | |
| LAWRENCE BERKELEY LABORATORY: | |
| research programs | |
| Research/accelerators. Bimonthly status report, January - February 1979. (E16). | 494801 |

- safety engineering**
Rules and procedures for the design and operation of hazardous research equipment. (C52, E13). 487432
- LAWRENCE LIVERMORE LABORATORY:**
- environmental impacts**
Draft environmental impact statement. (B31). 465754
- reviews**
Earth Sciences Division, collected abstracts, 1978. (B31). 476464
- LAYERS:**
See also **BOUNDARY LAYERS**
- amines**
Neutron activation analysis of the inorganic ions in Langmuir-Blodgett multilayers. (B11). 478833
- amorphous state**
Charge transport in Bi_2Se_3 amorphous thin layer. (B22, A13). 486904
- eicosanoic acid**
Neutron activation analysis of the inorganic ions in Langmuir-Blodgett multilayers. (B11). 478833
- electric conductivity**
Charge transport in Bi_2Se_3 amorphous thin layer. (B22, A13). 486904
- energy losses**
Methods and some applications of depth selective conversion electron Moessbauer spectroscopy. (E42). 492196
- length**
A sublimation generator for $\text{sup}(99\text{m})\text{Tc}$. (D13). [Data] 494658
- optical properties**
Neutron-optical properties of multilayer system. (A13). 481170
- plasma waves**
Excitation by optical radiation of surface plasma waves in multilayer structures: reflection coefficient and local energy distribution. (A13). 488970
- spectroscopy**
On the investigation into the composition of surface-near layers by means of the glow discharge spectral analysis and Auger electron spectroscopy. (B11). 490311
- surface properties**
Excitation by optical radiation of surface plasma waves in multilayer structures: reflection coefficient and local energy distribution. (A13). 488970
- LCAO CALCULATIONS:**
See **LCAO METHOD**
- LCAO METHOD:**
relativistic range
Relativistically parametrized extended Hueckel theory. (A12). 477776
- LCAO MO CALCULATIONS:**
See **LCAO METHOD**
- LCAO SCF TREATMENT:**
See **LCAO METHOD**
- LCAO THEORY:**
See **LCAO METHOD**
- LD 50:**
See **LETHAL RADIATION DOSE**
- LEACHING:**
ceramics
Inspection of 'leach tested' ceramics specimens. (B23, E52). 460779
- mary kathleen mines**
Leaching and solvent extraction at Mary Kathleen Uranium Ltd. (B31). 481937
- mathematical models**
Earth Sciences. (B31). [Data] 479644
- LEAD:**
absorption spectroscopy
A comparative study of mineralization methods applied to the determination of trace metals in suspensions by atomic absorption. (B11). [Data] 493483
- activation analysis**
Extension of the Zeeman atomic absorption technique to fifteen elements. (B11). 460397
- Determination of lead in high-purity silver. Comparison between photon activation and atomic absorption spectrometry. (B11). [Data] 465262**
- Multielemental trace analysis using cyclic activation and a low energy photon detector. (B11; Neutron reactions). 460425**
- Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504**
- alpha reactions**
Discovery of the maximum in angular distribution of protons emitted in the interaction of relativistic alpha particles with lead nuclei. (A34). 465083
- Fragmentation of relativistic light nuclei: longitudinal and transverse momentum distributions. (A22, A34; 0.93 to 2.88 GeV/c, cross sections, limiting fragmentation). 468152**
- L-shell x-ray production cross sections due to ^1H , ^4He , and ^7Li ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520**
- On the isotropy of the maximum position in the velocity spectrum of protons in $\alpha(4\text{ GeV/nucleon}) + \text{Pb}$ collisions. (A33). 493144**
- atom-atom collisions**
Positrons from 1.4-GeV uranium-atom collisions. (A12, A11). [Data] 464027
- biological effects**
Monitoring environmental exposures with semen assays. (C14; Mice). 476546
- Therapy of poisoning by radioactive and nonradioactive metals. (C21). 466191**
- chromatography**
Metal-ion chelation chromatography on silica-immobilized 8-hydroxyquinoline. (B11). [Data] 472357
- composite materials**
Internal friction and effective elastic modulus of porous and lead impregnated compositions on nickel base. (B23). 494090
- critical field**
Measurement of the internal magnetic field in a superconducting lead by the μ^* method. (A17, A13). 464721
- Superconducting-spot and normal-spot models for the intermediate state. (A17). [Data] 489701**
- cross sections**
K-shell photoionisation cross sections for 514, 661.6, 765.8 and 1115.5 keV gamma rays. (A12). [Data] 488889
- density**
Thermal expansion and density measurements of molten and solid materials at high temperatures by the gamma attenuation technique. (B22, E42). 490576
- deuteron reactions**
Application of the distorted wave method to the analysis of the deuteron disintegration reaction. (A33). 493317
- diffusion**
Estimate of the diffusion coefficient of lead in molten lithium. (B22, A14). 481818
- domain structure**
Experiments on the correlation between the flux line lattice and the crystal lattice in superconducting lead films. (A17, B22). 475491
- elastic scattering**
Elastic scattering of 1.17 and 1.33 MeV gamma rays by molybdenum, tantalum and lead. (A34). 486328
- Elastic scattering of 279 keV gamma rays. (A32). 460272**
- electronic structure**
Anisotropic superconductors and elastic impurity scattering. (A17, B22). 485980
- emission spectroscopy**
Results of elemental analyses of water and waterborne sediment samples from the Fairbanks NTMS quadrangle, Alaska. (B31; National Uranium Resource Evaluation (NURE)). 490812
- energy gap**
Evaluation of the validity of superconducting evidence for anisotropy and multiple energy gaps. (A17, B22). 475461
- Microscopic calculations of energy gap anisotropy. (A17, B22). 475463**
- Nonequilibrium gap instability and phase transition under intense tunnel injection in superconducting lead films. (B22, A17). 469192**
- equations of state**
Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- fluorescence**
An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- gamma spectra**
Elastic scattering of 1.17 and 1.33 MeV gamma rays by molybdenum, tantalum and lead. (A34). 486328
- hadronic atoms**
Hadronic atoms. (A12, A22). 477842
- heavy ion reactions**
Measurements of pions and high energy protons at large angles. (A22, A34; Preliminary results, differential cross sections). 468200
- Tables of light-fragment inclusive cross sections in relativistic heavy ion collisions. Part I. C + C, C + Pb, Ne + NaF, Ne + Cu, Ne + Pb $\rightarrow \pi^+$, p, d, t, ^3He ; E/sub BEAM/ = 800 MeV/A. (A33, A34; 800 MeV/A). [Data] 478653**
- ion collisions**
Impact-parameter-dependent inner-shell vacancy production in 0.7 - 2.7 MeV/amu ^{58}Ni collisions with ^{25}Mn , ^{50}Sn , and ^{82}Pb . (A12). 467225
- ion exchange chromatography**
Cation exchange chromatographic separation of scandium from other elements on Dowex 50W-X8. (B11, B13). 465263
- ion implantation**
Ranges of $^{27}\text{Al}^+$ ions in nine metals measured by (p, γ) resonance broadening. (A13). [Data] 471478
- ion-atom collisions**
X-ray measurements of K-L level matching in heavy ion collisions. (A12). 477757
- iron 56 reactions**
Fragmentation of relativistic ^{56}Fe . (A34). 478784
- k shell**
An evaluation of K-shell fluorescence yields; observation of outer-shell effects. (A12). [Data] 471357
- kaon neutral reactions**
K/sub L/-nucleus total cross sections between 30 and 150 GeV: Quantitative evidence for inelastic screening. (A22). 481437
- Precise coherent K/sub S/ regeneration amplitudes for C, Al, Cu, Sn, and Pb nuclei from 20 to 140 GeV/c and their interpretation. (A22). 481438**
- lithium 7 reactions**
L-shell x-ray production cross sections due to ^1H , ^4He , and ^7Li ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520
- magnetic flux**
Flux trapping and shielding in irreversible superconductors. (B22, A17). 479389
- monitoring**
EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- Radionuclides and trace metals in surface air. (B33, C52, B11). [Data] 476482**
- mutagenesis**
Monitoring environmental exposures with semen assays. (C14; Mice). 476546

- neutron reactions**
 Charged-particle production from neutron-nucleus collisions at 200 GeV/c. (A22). 475662
 Particle production from neutron-nucleus collisions at Fermilab energies. (A22; Rapidity, yields). [Data] 478536
 Polarization of 16-MeV neutrons due to elastic scattering. (A34). 468484
 Status of ENDF/B-V neutron emission spectra induced by 14-MeV neutrons. (A34; Partial and total spectra, cross sections, graphs). [Data] 478734
 Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p,p') and (n,n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- phonons**
 Anisotropic superconductors and elastic impurity scattering. (A17, B22). 485980
 Effective renormalization behavior of Ag films backed by superconducting Pb. (B22, A17). 486890
- photon transport**
 Gamma-ray dose rate conversion and buildup factors. (A32, D15; 1 to 10 MeV). [Data] 460273
- photon-atom collisions**
 Photoelectric cross sections derived from the total absorption cross sections in the energy range 5-130 keV. (A32). [Data] 460269
- photons**
 Measurement of number albedo of backscattered photons. (A32). 468239
 Modified quasi-deuteron model. (A34). 483895
- photoneuclear reactions**
 High energy photoproduction of the rho and rho' vector mesons. (A22; R). 475661
 High energy photoproduction of the rho and rho' vector mesons. (A22; Cross sections, $2\pi^+$ and $4\pi^+$ states, 30 to 160 GeV). [Data] 478534
 Measurement of shadowing in photon-nucleus total cross sections from 20 to 185 GeV. (A22). 475663
- positrons**
 Positron annihilation in lead. (A13). [Data] 467455
- pressure measurement**
 Summary of work done pursuant to Purchase Order No. 3268909. (B22, E42). 490598
- proton reactions**
 Nucleon-number dependence of inclusive dihadron production in proton-nucleus collisions at 400 GeV/c. (A22). 486139
 Two-particle quantum-number correlations in 400-GeV/c proton-nucleus collisions. (A22). 486138
- scattering**
 Study of liquid lead by thermal neutron scattering. (A13). 477944
- shales**
 Uranium reconnaissance survey of British Lower Palaeozoic shales: trace elements related to clay mineralogy. (B31). 479566
- shielding**
 Adjustable lead glass shielding device for use with a over-the-table x-ray tube. (C15, C60, C54). 469692
 Effectiveness of glass lenses in reducing exposure to the eyes. (C15, C60, C54). 469676
 Postero-anterior radiography: a method for reduction of eye dose. (C15, C60). 469720
 Radiation protection of the lens for patients and users. (C15, C60, C54). 469708
 Shielding benchmark problems. (A31). [Data] 490011
 X-ray attenuation by prescription lenses. (C15, C60, C54). 469731
- shielding materials**
 Method to produce a shieldry material against radioactive radiation. (E13, A34). 461510
 Protective device for organs exposed to medical X-radiation. (C45). 469889
- silver**
 Determination of lead in high-purity silver. Comparison between photon activation and atomic absorption spectrometry. (B11). [Data] 465262
- sputtering**
 Angular distribution of the kinetic energy re-emitted during ion bombardment. (A13). [Data] 492634
- superconducting junctions**
 Temperature dependence of the maximum d.c. Josephson current in superconducting proximity junctions. (A13). [Data] 481094
- superconductivity**
 Thermodynamics of superconducting Nb₃Sn. (A13). [Data] 459796
- temperature measurement**
 Summary of work done pursuant to Purchase Order No. 3268909. (B22, E42). 490598
- thermal expansion**
 Thermal expansion and density measurements of molten and solid materials at high temperatures by the gamma attenuation technique. (B22, E42). 490576
- thermodynamic properties**
 Thermodynamic characterization of liquid metals at high temperature by isobaric expansion measurements. (B22). 469168
- transport**
 Equation of state and transport measurements on expanded liquid metals up to 8000°K and 0.4 GPa. (B22). 469190
- tunnel effect**
 Effective renormalization behavior of Ag films backed by superconducting Pb. (B22, A17). 486890
 Geometrical resonances in the tunneling characteristics of superconducting Al films. (B22). 472652
 Nonequilibrium gap instability and phase transition under intense tunnel injection in superconducting lead films. (B22, A17). 469192
- washout**
 Determination of the ²¹⁰Pb, ²¹⁰Po and Pb washout coefficients using the measurements of their ground level concentrations and of their fallout. (B33). 479730
- x-ray fluorescence analysis**
 Determination of trace elements in light element matrices by x-ray fluorescence spectrometry with incoherent scattered radiation as an internal standard. (B11). [Data] 478813
 EML surface air sampling program: the quality of analysis, 1977. (B11, C52, B33; Quality control measures in radioactivity and trace metal sampling and analysis activities). 475911
- LEAD ALLOYS:**
 See also LEAD BASE ALLOYS
- carrier density**
 Transport in Pb_{sub}(1-x)Sn_{sub}(x)Te with low carrier concentration. (B22). 476273
- compatibility**
 Compatibility considerations for the use of solid breeders. (A14, B22). 485680
- critical field**
 Experimental investigations on the anisotropy of the upper critical field in type II superconductors. (A17, B22). 475487
- curie point**
 Metal-semiconductor transition in La_{sub}(0.71)Pb_{sub}(0.29)MnOs_{sub}(3) monocrystal at Curie point. (A13). 474709
- electric conductivity**
 Unusual resistance effect shown in a periodic S-N-S system (Pb-Sn lamellar eutectic). (A17). 475466
- lande factor**
 Electron and hole g-factors in Pb_{sub}(1-x)Sn_{sub}(x)Te alloys in the region of direct and inverse spectra. (A13). 492553
- magnetic flux**
 Flux pinning and flux flow studies in superconductors using flux flow noise techniques. Progress report, April 1, 1978 - December 30, 1978. (A17, B22). 478383
 Flux pinning and flux flow studies in superconductors using flux flow noise techniques. Progress report, April 1, 1978 - December 30, 1978. (A17, B22). 478383
 Flux trapping and shielding in irreversible superconductors. (B22, A17). 479389
- magnetic susceptibility**
 Magnetic susceptibility of Pb_{sub}(0.82)Sn_{sub}(0.18)Te narrow-gap semiconductor within the temperature range of 4.2 - 300 K. (B22). 479414
- neutron reactions**
 Experiment to measure the tritium and helium release rates from neutron irradiated Li-Pb₂. (A14). 485730
 Neutronic performance of candidate tritium breeding materials. (A14). 485748
- porosity**
 Evidence for microporosity and dislocations in Pb(Cd) alloys from positron annihilation studies. (A13). 481101
- solidification**
 Directional solidification of filamentary shapes of Pb-Cd and Pb-Sn eutectic alloys. (B22). 469149
- superconducting junctions**
 Study of subharmonic gap structures in both symmetric and asymmetric superconducting tunnel junctions based on oxidised PbIn alloy electrodes. (A17). 471955
- tritium recovery**
 Results of basic research program on Li-Pb₂. (A14). 485826
- LEAD BASE ALLOYS:**
- critical field**
 Anisotropy of H_{sub} c₂/ in PbTl-alloys. (A17, B22). 475478
- magnetic field configurations**
 Correlations between flux line lattice and crystal lattice. (A17). 475486
- magnetic flux**
 Morphology of flux line lattices in single crystalline Type II superconductors. (A17, B22). 475493
- superconductivity**
 Superconductivity of films of binary lead and molybdenum base alloys prepared by low-temperature condensation method. (B22; Pb with Ge, Si, Ga, Bi and Mo; Mo with Bi, Ge). 484237
- superlattices**
 Correlations between flux line lattice and crystal lattice. (A17). 475486
- LEAD CHLORIDES:**
- absorption spectroscopy**
 High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362
- chromatography**
 High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362
- crystal structure**
 Structural phase transitions in CsPbCl₃ and RbCdCl₃. (A13). [Data] 481143
- LEAD COMPLEXES:**
- polarography**
 Polarographic investigation of cadmium and lead thiourea complexes in aqueous-dimethylformamide solutions. (B12). 479059
- LEAD COMPOUNDS:**
 See also GALENA: LEAD CHLORIDES; LEAD FLUORIDES; LEAD HYDROXIDES; LEAD IODIDES; LEAD NITRATES; LEAD OXIDES; LEAD SELENIDES; LEAD SULFIDES; LEAD TELLURIDES; TEL

- chemical radiation effects**
Electron paramagnetic resonance spectra of γ -irradiated germanium, tin, and lead tetraacetates. (B14). [Data] 486755
- chemical reactions**
Investigation of complexing equilibria of some phosphorus containing complexes with cadmium and lead ions by means of polarographic method. (B12). 478992
- crystal-phase transformations**
Structural phase transitions in lead zirconate. (A13). [Data] 462256
- electrolysis**
Investigation of behaviour and determination of indium, cadmium, thallium, lead and tin by the method of inverse alternating current voltammetry. (B12). 478961
- helium ions**
Structure of spectra of backscattered helium ions in lead titanate monocrystals. (A13). 492702
- ion implantation**
Laser annealing of indium-implanted Pb/sub 0.8/Sn/sub 0.2/Te films. (B21). 465532
- laser-radiation heating**
Laser annealing of indium-implanted Pb/sub 0.8/Sn/sub 0.2/Te films. (B21). 465532
- radiolysis**
Low temperature radiolysis of lead acetate aqueous solutions. (B14). 479141
- solvent extraction**
Extraction of metal ions from chloride solution with N,N-diethylacetamide. (B12). [Data] 462732
- x-ray fluorescence analysis**
An X-ray fluorescence technique for in vivo determination of lead concentration in a bone matrix. (C61). [Data] 463452
- zirconates**
Results of in-pile studies of electrophysical properties of piezoceramic materials. (B25). 484319
- LEAD FLUORIDES:**
- gadolinium ions**
Spectral diffusion in coherent effects of gadolinium in $\text{Pb}_3\text{Ge}_2\text{O}_{11}$, SrF_2 , $\beta\text{-PbF}_2$, BaF_2 crystals. (A13). 467402
- rutherford scattering**
Comparative observation of ionic migration in $\text{PbF}_2\beta$ and CaF_2 thin films by Rutherford scattering. (A13). 471525
- LEAD HYDROXIDES:**
- electronic structure**
Bandstructure calculations for metal hydrogen systems. (B23). 472704
- lattice parameters**
Bandstructure calculations for metal hydrogen systems. (B23). 472704
- LEAD IODIDES:**
- absorption spectra**
Effect of strong excitation on the exciton spectra in PbI_2 crystals. (A13). 464129
- phase diagrams**
Mutual system of bromides and iodides of sodium, cadmium and lead. (B12). 493654
- photoluminescence**
Systems of $\text{Rb}_2\text{I}_2\text{-CdI}_2\text{-PbI}_2$ and $\text{Cs}_2\text{I}_2\text{-CdI}_2\text{-PbI}_2$. (B12). 493739
- Effect of strong excitation on the exciton spectra in PbI_2 crystals. (A13). 464129**
- LEAD IONS:**
- diffusion**
Diffusion of impurities in NaCl: NaF mixed crystals. (A13). 471523
- ion implantation**
Change in the thermal oxidation of gallium arsenide induced by ion implantation. (B25). [Data] 469412
- ion-ion collisions**
How good is the adiabatic basis in heavy ion collisions. (A12). 488916
- photoionization**
Two-channel relativistic random-phase approximation applied to the photoionisation of helium- and beryllium-like ions. (A12). 474614
- LEAD ISOTOPEs:**
See also LEAD 190; LEAD 192; LEAD 193; LEAD 195; LEAD 197; LEAD 199; LEAD 200; LEAD 201; LEAD 202; LEAD 203; LEAD 204; LEAD 206; LEAD 207; LEAD 208; LEAD 209; LEAD 210; LEAD 212; LEAD 214
- alpha decay**
On the Tl and Pb neutron-deficient isotope alpha decay. (A33). 493309
- configuration mixing**
Fixed J spectral distributions in large shell model spaces. Pt. 1. (A33). [Data] 472163
- high spin states**
High spin states in nuclei around ^{208}Pb . (A34, A33). 478703
- photonuclear reactions**
Medium energy photonuclear research activities at the 600 MeV Saclay Linac. (A34). [Data] 481532
- LEAD METHOD:**
See ISOTOPE DATING
- LEAD NITRATES:**
- absorption spectroscopy**
High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362
- chromatography**
High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362
- radiolysis**
Study of radical products of lead nitrate radiolysis. (B14). 479140
- LEAD ORES:**
- x-ray fluorescence analysis**
Determination of lead content in concentrate by X-ray fluorescence analysis. (D22). 491421
- LEAD OXIDES:**
- absorption spectroscopy**
High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362
- argon 40 reactions**
Multipion production in nuclear collisions. (A33, A21). [Data] 475737
- chromatography**
High gas temperature furnace for species determination of organometallic compounds with a high pressure liquid chromatograph and a Zeeman atomic absorption spectrometer. (B11). 472362
- electrical properties**
Response of ferroelectric ceramics to uniaxial stress. (B23; Nb doped PZT 95/5). 472697
- glass**
Determination of PbO concentration in lead glass using gamma radiation absorption. (D22, B11). [Data] 494665
- mechanical properties**
Response of ferroelectric ceramics to uniaxial stress. (B23; Nb doped PZT 95/5). 472697
- orthorhombic lattices**
X-ray diffraction studies of $\text{Pb}_2\text{NbYbO}_6$. (B12). 465435
- phase diagrams**
Investigation into reaction in the systems formed by calcium molybdate and zinc, cadmium and lead oxides and molybdates. (B12). 478969
- phase transformations**
Response of ferroelectric ceramics to uniaxial stress. (B23; Nb doped PZT 95/5). 472697
- radiation absorption analysis**
Determination of PbO concentration in lead glass using gamma radiation absorption. (D22, B11). [Data] 494665
- LEAD SELENIDES:**
- crystal growth**
Preparation of perfect films on the base of A^*B^6 in double quasi-closed volume. (B12, B22). 468738
- lattice vibrations**
On some parameters of lattice dynamics of $(\text{PbSe})_{\text{sub}(1-x)} - (\text{SnTe})_{\text{sub}(x)}$ solid solutions. (A13). 477870
- physical radiation effects**
Electrophysical and recombination characteristics of $\text{Pbsub}(1-x)\text{Snsub}(x)\text{Te}(\text{Se})$ crystals irradiated with electrons. (A13). 474723
- LEAD SULFIDES:**
See also GALENA
- critical current**
Comparison of projected critical currents in PbMo_6S_8 and Nb_3Ge . (B22). [Data] 462852
- Temperature dependence of critical currents of PbMo_6S_8 . (A17). 493023**
- crystal-phase transformations**
Phase relations and stoichiometry of superconducting Pb/sub x/Mo₆S₈ sub 8-y/. (B23, A17). 469366
- current density**
Comparison of projected critical currents in PbMo_6S_8 and Nb_3Ge . (B22). [Data] 462852
- magnetic flux**
Scaling laws for pinning forces in inhomogeneous superconductors. (B22). 469095
- magnetoresistance**
Electronic properties of PbMo_6S_8 and Cu/sub x/Mo₆S₈. (B22, A17). [Data] 465678
- phase diagrams**
Phase relations and stoichiometry of superconducting Pb/sub x/Mo₆S₈ sub 8-y/. (B23, A17). 469366
- superconductivity**
Electronic properties of PbMo_6S_8 and Cu/sub x/Mo₆S₈. (B22, A17). [Data] 465678
- LEAD TELLURIDES:**
- band theory**
Band structure and hole scattering in p-PbTe. (A13). 492628
- carrier lifetime**
Non-equilibrium metallic state in $\text{Pbsub}(1-x)\text{Snsub}(x)\text{Te}(\text{In})$ alloys. (A13). 464120
- chemical preparation**
Synthesis and properties of ternary chalcogenide compounds formed in tellurium-lead-chalcogen systems. (B12). 481676
- chemical reactions**
Analysis of molecular interaction in the PbTe-GeTe quasi-binary system on the base of experimental study of viscosity and electric conductivity. (B12). 468821
- crystal growth**
Investigation into $\text{Pbsub}(x)\text{Snsub}(1-x)\text{Se}$ solid solutions and InPbTe_2 ternary compounds. (B12). 468789
- Preparation of perfect films on the base of A^*B^6 in double quasi-closed volume. (B12, B22). 468738**
- electric conductivity**
On specific feature of the electroconductivity of n-PbTe polycrystals at low temperature. (A13, A17). 492719
- Peculiarities of transport phenomena in $\text{Pbsub}(0.78)\text{Snsub}(0.22)\text{Te}$ with rich content of indium. (A13). 464224**

- epitaxy**
Epitaxial layers of lead chalcogenides grown in quasi-closed volume. (B12, B22). 468853
Growth of lead telluride epitaxial layers and its solid solutions on the lithium niobate. (B22). 469270
- galvanomagnetic effect**
Non-equilibrium metallic state in $\text{Pbsub}(1-x)\text{Snsb}(x)\text{Te}(\text{In})$ alloys. (A13). 464120
- gyromagnetic ratio**
Necessity of a phase convention for effective g-factors and role of the g-factors in the Knight shifts of PbTe . (A13). 474827
- holes**
Effective mass of holes in $\text{Pbsub}(1-x)\text{Snsb}(x)\text{Te}$. (B22). 481850
- photosensitivity**
Peculiarities of transport phenomena in $\text{Pbsub}(\text{O.78})\text{Snsb}(\text{0.22})\text{Te}$ with rich content of indium. (A13). 464224
- physical radiation effects**
Electrophysical and recombination characteristics of $\text{Pbsub}(1-x)\text{Snsb}(x)\text{Te}(\text{Se})$ crystals irradiated with electrons. (A13). 474723
High temperature defects in electron irradiated semiconductors HgCdTe , PbSnTe . (B25, E43). 481911
- polarography**
Oscillopolarographic determination of main components of the $\text{Psub}(x)\text{Snsb}(1-x)\text{Te}$ alloy. (B11). 468631
- polycrystals**
On specific feature of the electroconductivity of n-PbTe polycrystals at low temperature. (A13, A17). 492719
- thallium additions**
Thallium impurity states in lead telluride. (A13). 492703
- thermal conductivity**
Kinetic coefficients in solid solutions of the $(\text{Agsb}(x/2)\text{Pbsub}(1-x)\text{Sbsb}(x/2))\text{Te}$ type. (A13). 485577
- thermoelectric properties**
Kinetic coefficients in solid solutions of the $(\text{Agsb}(x/2)\text{Pbsub}(1-x)\text{Sbsb}(x/2))\text{Te}$ type. (A13). 485577
Thermoelectric properties of impurity doped PbTe . (B12, A13). 486575
- thermoelectricity**
Effective mass of holes in $\text{Pbsub}(1-x)\text{Snsb}(x)\text{Te}$. (B22). 481850
- vapor condensation**
On the temperature effect of substrate and evaporation rate on condensate dispersion. (B12). 465374
- LEAD 190:**
energy levels
Properties of ^{192}Pb - ^{190}Pb ; behavior of the very neutron deficient even lead isotopes. (A34). 481591
- LEAD 192:**
alpha decay
Anomalous α -decay rate of ^{192}Pb . (A34). 486470
electron capture decay
Anomalous α -decay rate of ^{192}Pb . (A34). 486470
energy levels
Properties of ^{192}Pb - ^{190}Pb ; behavior of the very neutron deficient even lead isotopes. (A34). 481591
- LEAD 193:**
electron capture decay
Studies of $Z = 81$ transitional nuclei II: ^{193}Pb and ^{195}Pb decay. (A34; Lifetime, half-life). [Data] 472243
gamma spectroscopy
Study of even mass neutron deficient lead isotopes. (A34). [Data] 486450
- LEAD 195:**
electron capture decay
Studies of $Z = 81$ transitional nuclei II: ^{193}Pb and ^{195}Pb decay. (A34; Lifetime, half-life). [Data] 472243
gamma spectroscopy
Study of even mass neutron deficient lead isotopes. (A34). [Data] 486450
- LEAD 197:**
decay
Half-lives and decay of ^{197}Pb isomers. (A34). 460358
gamma spectroscopy
Study of even mass neutron deficient lead isotopes. (A34). [Data] 486450
- LEAD 199:**
half-life
Half-lives and decay of ^{197}Pb isomers. (A34). 460358
high spin states
High spin isomeric states in ^{197}Pb . (A34). 472293
- LEAD 200:**
gamma spectroscopy
Study of even mass neutron deficient lead isotopes. (A34). [Data] 486450
nuclear reaction yield
Production of ^{201}Tl and ^{203}Pb via proton induced nuclear reactions on natural thallium. (D13). [Data] 463489
- LEAD 201:**
gamma spectroscopy
Study of even mass neutron deficient lead isotopes. (A34). [Data] 486450
nuclear reaction yield
Production of ^{201}Tl and ^{203}Pb via proton induced nuclear reactions on natural thallium. (D13). [Data] 463489
- LEAD 202:**
nuclear reaction yield
Production of ^{201}Tl and ^{203}Pb via proton induced nuclear reactions on natural thallium. (D13). [Data] 463489
- LEAD 203:**
gamma spectroscopy
Study of even mass neutron deficient lead isotopes. (A34). [Data] 486450
impurities
The presence of ^{202}Pb in ^{203}Pb samples. (B11, B13). [Data] 462682
ion exchange chromatography
Separation of ^{203}Pb from TiO_2 target material using a hydrous zirconium oxide column with application to ^{201}Tl preparation. (B13). [Data] 493778
isotope production
The presence of ^{202}Pb in ^{203}Pb samples. (B11, B13). [Data] 462682
nuclear reaction yield
Production of ^{201}Tl and ^{203}Pb via proton induced nuclear reactions on natural thallium. (D13). [Data] 463489
- LEAD 204:**
coulomb excitation
Determination of maximum safe bombarding energies and $B(E3)$ values in reorientation experiments with ^{204}Pb , ^{206}Pb and ^{208}Pb . (A34). 478771
fission
Neutron-induced fission of lead isotopes. (A34). 481541
neutron reactions
Neutron-induced fission of lead isotopes. (A34). 481541
nuclear reaction yield
Production of ^{201}Tl and ^{203}Pb via proton induced nuclear reactions on natural thallium. (D13). [Data] 463489
- LEAD 204 TARGET:**
deuteron reactions
Investigation of the deeply bound hole state via the $(d, ^3\text{He})$ reaction. (A34). 490228
helium 3 reactions
 $(^3\text{He}, n)$ reaction near and above $Z = 82$. (A34). 486312
- LEAD 206:**
coulomb excitation
Determination of maximum safe bombarding energies and $B(E3)$ values in reorientation experiments with ^{204}Pb , ^{206}Pb and ^{208}Pb . (A34). 478771
energy levels
E0 and E2 decay of low-lying 0^+ states in the even-even nuclei ^{206}Pb , ^{208}Po , $^{112-120}\text{Sn}$ and $^{112-114}\text{Cd}$. (A34). 478738
Nuclear data sheets for $A=206$. (A34). [Data] 465235
fission
Neutron-induced fission of lead isotopes. (A34). 481541
muonic atoms
Shift of levels of μ -mesoatoms and anomalous interaction of muons with nuclei. (A12). 492536
neutron reactions
Neutron-induced fission of lead isotopes. (A34). 481541
nuclear properties
Nuclear data sheets for $A=206$. (A34). [Data] 465235
vibrational states
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p, p') and (n, n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
- LEAD 206 TARGET:**
argon 40 reactions
 ^{42}A study of fusion reactions between $^{206, 207}\text{Pb}$ nuclei and ^{40}Ar ions near the Coulomb barrier. (A34). [Data] 468482
carbon 13 reactions
High spin yrast states in $N=126$ isotones. (A34). 475816
deuteron reactions
Investigation of the deeply bound hole state via the $(d, ^3\text{He})$ reaction. (A34). 490228
helium 3 reactions
 $(^3\text{He}, n)$ reaction near and above $Z = 82$. (A34). 486312
neutron reactions
Excitation of isobar analogue states in Pb^{207} by neutrons. (A34). 493365
Low-energy neutron resonances in ^{206}Pb . (A34). [Data] 465188
photoneuclear reactions
E2-E1 interference from angular distributions of photoneutrons from lead isotopes. (A34). 465097
Interaction of photons with ^{208}Pb and neighboring isotopes at energies below the neutron emission threshold. (A34). [Data] 465172
proton reactions
Systematics of gamma decay through low lying vibrational levels of even-even nuclei excited by (p, p') and (n, n') reactions. (A34; 7 to 26 MeV, cross sections, strength, isospin mixing). 465166
Three nucleon transfer in (α, p) and $(^3\text{He}, ^4\text{He})$ reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
- LEAD 207:**
configuration interaction
A method of exact calculation of fixed-J configuration centroids. (A11). 480988
energy levels
Low-energy neutron resonances in ^{206}Pb . (A34). [Data] 465188
excited states
Observation of $T < \text{and } T >$ inner hole states in ^{207}Pb . (A34). 460328
fission
Neutron-induced fission of lead isotopes. (A34). 481541
gamma cascades
Angular correlation measurement of gamma ray transitions in the decay of ^{207}Bi . (A34). 468545

- isobaric analogs**
Excitation of isobar analogue states in Pb^{207} by neutrons. (A34). 493365
- magnetic dipole moments**
Magnetic moments of single-particle states around ^{208}Pb . (A33). 475739
- neutron reactions**
Neutron-induced fission of lead isotopes. (A34). 481541
- neutron separation energy**
Low-energy neutron resonances in ^{208}Pb . (A34). [Data] 465188
- vibrational states**
Effect of core vibration on the neutron-hole states of ^{207}Pb . (A33). [Data] 465036
- LEAD 207 TARGET:**
- argon 40 reactions**
A study of fusion reactions between $^{206,207}\text{Pb}$ nuclei and ^{40}Ar ions near the Coulomb barrier. (A34). [Data] 468482
- deuteron reactions**
Evidence for negative parity for the 7064-keV level in ^{208}Pb . (A34). [Data] 465149
- kinetic study of binary and ternary fission induced by 2.1 GeV deuterons incident on U, Th, Bi, Pb and Au targets. (A34).** 481543
- iron 58 reactions**
Experiments on the synthesis of element 108 in the $^{208}\text{Pb} + ^{58}\text{Fe}$ reaction. (A34). 486434
- neutron reactions**
High-excited ^{208}Pb nuclei states at the proton energy about 24 MeV. (A34). 493366
- photoneuclear reactions**
E2-E1 interference from angular distributions of photoneutrons from lead isotopes. (A34). 465097
- Interaction of photons with ^{208}Pb and neighboring isotopes at energies below the neutron emission threshold. (A34). [Data] 465172
- Measurement of total cross sections of hadron photoproduction on C, Cu, and Pb nuclei for $E_{\text{sub}}(\gamma) = (12-30)$ GeV. (A22, A33). 468154
- proton reactions**
Analyzing power in the $^{207}\text{Pb}(p, \text{vector } p)^{207}\text{Pb}$ reaction near the $3p_{1/2}$ sub 1/2 isobaric analog resonance. (A34; Energy and angular dependence). [Data] 486323
- LEAD 208:**
- charge density**
Leptonic probes of nuclear densities. (A33; Critical review). [Data] 486270
- coulomb energy**
Coulomb displacement energies in nuclei: a new approach. (A33). 481462
- coulomb excitation**
Determination of maximum safe bombarding energies and $B(E3)$ values in reorientation experiments with ^{204}Pb , ^{206}Pb and ^{208}Pb . (A34). 478771
- electric charges**
The charge distribution of ^{208}Pb . (A12). [Data] 492534
- energy levels**
($^3\text{He}, n$) reaction near and above $Z = 82$. (A34). 486312
- Evidence for negative parity for the 7064-keV level in ^{208}Pb . (A34). [Data] 465149
- E1 excitations in ^{208}Pb induced by fast neutrons. (A34). 478716
- High-excited ^{208}Pb nuclei states at the proton energy about 24 MeV. (A34). 493366
- Interaction of photons with ^{208}Pb and neighboring isotopes at energies below the neutron emission threshold. (A34). [Data] 465172
- Parity of Bound J-1 levels in ^{208}Pb . (A34). [Data] 465196
- Precritical behavior in pionlike nuclear excited states. (A33). 486295
- energy spectra**
Evidence for giant quadrupole excitation in ^{208}Pb by 200 MeV ^{12}C scattering. (A34). 490190
- energy-level transitions**
Study of low lying dipole states in Pb isotopes via analog resonant (p,p'). (A34). [Data] 486358
- excited states**
Excitation of levels of anomalous parity in the (p,p') reactions. (A33). 493296
- High resolution inelastic electron scattering and the excitation of magnetic dipole and quadrupole states in nuclei. (A34). 465132
- Study on the resonance and antibound states on the basis of analytical continuation by the coupling constant for relativistic potentials. (A33). 483753
- e1-transitions**
E1 excitations in ^{208}Pb induced by fast neutrons. (A34). 478716
- High-resolution photoneutron study of E1 and M1 transitions in ^{208}Pb . (A34). 490180
- fission**
Neutron-induced fission of lead isotopes. (A34). 481541
- giant resonance**
The breathing mode state in ^{144}Sm and ^{208}Pb . (A34). 465243
- Evidence for giant quadrupole excitation in ^{208}Pb by 200 MeV ^{12}C scattering. (A34). 483891
- Fragmentation of the electric multipole strength in ^{208}Pb . (A33). 465053
- Giant-resonance studies with high-energy heavy ions. (A34; 315 MeV). [Data] 465119
- Inelastic scattering of 108.5 MeV ^3He particles at very small momentum transfer to the giant monopole resonance of ^{90}Zr and ^{208}Pb . (A34). 490133
- Proton excitation of the isovector giant quadrupole resonance in ^{208}Pb . (A33). 483779
- Self-consistent theory of the giant dipole resonance in excited nuclei. (A33; sup(58)Ni, sup(64,66,68,70)Zn, sup(90,92)Zr, sup(208)Pb). 493164
- isobaric analogs**
Effects of isospin purity breaking of E1 and E2 isobaric analog resonances in the photoproton reaction on a ^{208}Pb nucleus. (A33). 493282
- muonic atoms**
Discrepancy between theory and experiment in nuclear polarization corrections of muonic ^{208}Pb . (A12). 488930
- m1-transitions**
High-resolution photoneutron study of E1 and M1 transitions in ^{208}Pb . (A34). 490180
- Magnetic susceptibility and M1 transitions in ^{208}Pb . (A33). 472216
- neutron reactions**
Neutron-induced fission of lead isotopes. (A34). 481541
- nuclear matter**
Elastic and inelastic scattering of fast protons and electrons on nuclei and self-consistent calculations of nuclear densities. (A33). 493294
- nuclear structure**
"Model-free" information on nuclear structure from electron inelastic scattering. (A33). 493181
- Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082
- Discrepancy between theory and experiment in nuclear polarization corrections of muonic ^{208}Pb . (A12). 488930
- spatial distribution**
The charge distribution of ^{208}Pb . (A12). [Data] 492534
- LEAD 208 BEAMS:**
- ion-atom collisions**
Molecular-orbital X-rays from 1 GeV $^{208}\text{Pb} + ^{208}\text{Pb}$ and $^{209}\text{Bi} + ^{209}\text{Bi}$ collisions. (A12). 477790
- nuclear decay**
Coulomb disintegration of relativistic ions. (A33). 493235
- LEAD 208 REACTIONS:**
- coulomb scattering**
Test of the time-dependent Hartree-Fock theory in the $^{208}\text{Pb} + ^{208}\text{Pb}$ reaction. (A33). 486218
- deep inelastic heavy ion react**
Time-dependent Hartree-Fock and elementary modes of excitation description of deep inelastic processes in the reaction $^{208}\text{Pb} + ^{208}\text{Pb}$ - a comparison. (A33). 490050
- fission**
Direct evidence for multiple sequential fission in the interaction of ^{208}Pb and ^{238}U with uranium. (A34; 1535 and 1785 MeV). [Data] 465139
- Three-body analysis of fission in heavy ion reactions. (A34). 486359
- many-nucleon transfer reaction**
Neutron rich nucleon flow in central heavy ion collisions. (A34). 468475
- proton spectra**
Inclusive proton-spectra from heavy-ion collisions at 400 MeV/amu. (A33). 490084
- LEAD 208 TARGET:**
- alpha reactions**
High spin states in nuclei around ^{208}Pb . (A34, A33). 478703
- Small deviations from Rutherford scattering. (A33). 460292
- calcium 48 reactions**
Study on the fusion reactions of ^{48}Ca ions with sup(203,205)Ti, ^{208}Pb , ^{209}Bi nuclei. (A34, A33). 493376
- carbon 12 reactions**
Evidence for giant quadrupole excitation in ^{208}Pb by 200 MeV ^{12}C scattering. (A34). 490190
- Evidence for giant quadrupole excitation in ^{208}Pb by 200 MeV ^{12}C scattering. (A34). 483891
- Investigation of the nuclear continuum by inelastic scattering of ^{12}C ions. (A34). 472274
- deuteron reactions**
 α clustering in ^{208}Pb from (d, ^3Li) at $E_{\text{sub}} d / < 55$ MeV. (A34). 486330
- Charged-particle spectra: 80 MeV deuterons on ^{27}Al and ^{58}Ni and 70 MeV deuterons on ^{90}Zr , ^{208}Pb , and ^{232}Th . (A34). [Data] 465241
- High-spin states in ^{207}Bi and the question of three-particle interactions. (A34). 478744
- Investigation of the deeply bound hole state via the (d, ^3He) reaction. (A34). 490228
- electron reactions**
Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082
- excited states**
Self-consistent description of low-lying states in double-magic nuclei. (A33). 493171
- helium 3 reactions**
($^3\text{He}, n$) reaction near and above $Z = 82$. (A34). 486312
- ($^3\text{He}, t$) reaction at 80 MeV on ^{90}Zr and ^{208}Pb . (A34). 460353
- $^{208}\text{Pb}(^3\text{He}, t)^{208}\text{Bi}$, $^{144}\text{Sm}(^3\text{He}, t)^{144}\text{Eu}$. Search for collective 1^+ states. (A34). 490146
- Effect of core vibration on the neutron-hole states of ^{207}Pb . (A33). 465036
- Inelastic scattering of 108.5 MeV ^3He particles at very small momentum transfer to the giant monopole resonance of ^{90}Zr and ^{208}Pb . (A34). 490133
- iron 58 reactions**
Experiments on the synthesis of element 108 in the $^{208}\text{Pb} + ^{58}\text{Fe}$ reaction. (A34). 486434
- isobaric analogs**
Observation of T< and T> inner hole states in ^{207}Pb . (A34). 460328

- krypton 84 reactions**
TDHF calculations of Kr-induced strongly damped collisions. (A33; 494 to 714 MeV). [Data] 486216
- lead 208 reactions**
Test of the time-dependent Hartree-Fock theory in the $^{208}\text{Pb} + ^{208}\text{Pb}$ reaction. (A33). 486218
Time-dependent Hartree-Fock and elementary modes of excitation description of deep inelastic processes in the reaction $^{208}\text{Pb} + ^{208}\text{Pb}$ - a comparison. (A33). 490050
- lithium 6 reactions**
Elastic scattering of 90 MeV ^6Li ions. (A34). 490168
Transfer of ^6Li break-up fragments at ^6Li projectile energies far above the coulomb barrier. (A34). [Data] 483907
- magnesium 24 reactions**
Static quadrupole moment of the first excited state of ^{24}Mg . (A34). 490155
- neutron reactions**
Direct - semidirect calculation in the Pb region. (A33). [Data] 486222
Effects of particle-vibration coupling on the Hartree-Fock potential. (A33). 464957
El excitations in ^{208}Pb induced by fast neutrons. (A34). 478716
Neutron inelastic scattering from closed-shell nuclei. (A34; Differential cross sections, 11 to 2517 MeV.). 460321
North Carolina State University Nuclear Structure Research at the Triangle Universities Nuclear Laboratory. Progress report, April 1, 1978 - March 31, 1979. (A34). 475836
- nitrogen 14 reactions**
Backscattering of accelerated ions of nitrogen-14 on lead-208 nuclei. (A34). 493440
- nucleon reactions**
Investigation of giant E3 resonances by (N, γ) reactions. (A33). 483795
- oxygen 16 reactions**
Direct reactions induced by ^{16}O on ^{208}Pb at high incident energy. (A33). 462615
Fragmentation of the total cross section in the reaction $^{16}\text{O} + ^{208}\text{Pb}$. (A34). [Data] 481600
Giant-resonance studies with high-energy heavy ions. (A34; 315 MeV). [Data] 465119
Small deviations from Rutherford scattering. (A33). 460292
- oxygen 18 reactions**
Electric moments of the first excited state of ^{18}O . (A34). 490154
Electric moments of the first excited state of ^{18}O . (A34). 483869
- photoneuclear reactions**
E2-E1 interference from angular distributions of photoneutrons from lead isotopes. (A34). 465097
High-resolution photoneutron study of E1 and M1 transitions in ^{208}Pb . (A34). 490180
Interaction of photons with ^{208}Pb and neighboring isotopes at energies below the neutron emission threshold. (A34). [Data] 465172
Momentum spectrum of protons generated at 20 deg - 160 deg angles on nuclei irradiated by bremsstrahlung photons with (4.5 GeV) maximum energy. (A34). 472246
Parity of Bound J-1 levels in ^{208}Pb . (A34). [Data] 465196
- pion minus reactions**
Pion single charge exchange. (A34, E41; Angular distribution, cross sections, preliminary results, 200 MeV). [Data] 478717
The pion-nucleus many-body problem. (A33). 468284
Search for π in π double charge exchange reactions with heavy nuclei. (A34, A22). 468456
Study of elastic pion scattering from ^9Be , ^{28}Si , ^{58}Ni , and ^{208}Pb at 162 MeV. (A34; Total and differential cross sections, scattering yields, scattering amplitudes). [Data] 490144
- pion plus reactions**
The pion-nucleus many-body problem. (A33). 468284
Study of elastic pion scattering from ^9Be , ^{28}Si , ^{58}Ni , and ^{208}Pb at 162 MeV. (A34; Total and differential cross sections, scattering yields, scattering amplitudes). [Data] 490144
- proton reactions**
The (p,t) reaction on ^{12}C , ^{54}Fe and ^{208}Pb at 80 MeV. (A34). 483924
Direct - semidirect calculation in the Pb region. (A33). [Data] 486222
Effects of isospin purity breaking of E1 and E2 isobaric analog resonances in the photoproton reaction on a ^{208}Pb nucleus. (A33). 493282
Excitation of levels of anomalous parity in the (p,p') reactions. (A33). 493296
Microscopic approaches to the intermediate energy nucleon - nucleus optical potential. (A33; 100 to 1500 MeV). 468392
Microscopic description of direct excitation of giant resonances by protons. (A33). 493172
Neutron isotopic density differences deduced from 0.8 GeV polarized proton elastic scattering. (A33). 486283
Precritical behavior in pionlike nuclear excited states. (A33). 486295
Proton excitation of the isovector giant quadrupole resonance in ^{208}Pb . (A33). 483779
Proton - nucleus elastic scattering at 1 GeV in the Glauber model. (A33). 468267
Relevance of the proximity potential to light-ion scattering. (A33). 493303
Self-consistent description of low-lying states in double-magic nuclei. (A33). 493171
Simple unitary estimate for multistep processes. (A33). 475712
Tensor force and inelastic electron and proton scattering to unnatural-parity states of stretched configurations. (A33). 490082
Three nucleon transfer in (α ,p) and (^3He , ^3He) reactions. (A33; Zero-range DWBA, J, π , reaction kinetics, strengths, angular distribution, single-particle potential). [Data] 478619
Total reaction cross sections and the matter density of finite nuclei. (A33). 475723
- stripping**
Simple unitary estimate for multistep processes. (A33). 475712
- xenon 136 reactions**
Kr and Xe induced reactions. (A34; 710 and 1120 MeV). [Data] 486469
- LEAD 209:**
energy levels
(n,p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). [Data] 486407
magnetic dipole moments
Magnetic moments of single-particle states around ^{208}Pb . (A33). 475739
- LEAD 210:**
aerial monitoring
High altitude balloon sampling program. (B33, B11; Monitoring of radioactivity at selected altitudes in the stratosphere). [Data] 476488
biological half-life
Solubility classification of airborne products from uranium ores and tailings piles. (C54, B13, C21; Solubility parameters are based on airborne and sieved ground dust samples). [Data] 469988
delayed radiation effects
 ^{226}Ra , ^{210}Pb , ^{210}Po , and calcium in the eyes of long-term radium cases. (C21). [Data] 479942
distribution
Lead distribution and effects during development in the rat. (C21; ^{210}Pb). 461092
environment
Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). [Data] 494348
Food chain transport of ^{210}Pb resulting from uranium milling activities. (C22, C21, C52). [Data] 473109
environmental exposure pathway
Food chain transport of ^{210}Pb resulting from uranium milling activities. (C22, C21, C52). [Data] 473109
Pathways for polonium-210 and lead-210 concentration by plants in areas of increased natural background radiation. (C22). 463256
fallout
On the ^{210}Pb and ^{210}Po deposition rates by the dray fallout and precipitation. (B33). 479731
ingestion
Normal dietary levels of ^{226}Ra , ^{228}Ra , ^{210}Pb , and ^{210}Po for man. (C21). 479944
isotope dating
 ^{210}Pb dating of annually laminated lake sediments from Finland. (B32). 487128
man
 ^{210}Pb and ^{210}Po concentrations in human soft tissues. (C21). 466203
radiation monitoring
Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). [Data] 494348
Lead 210 levels in human bones from Paris area. (C21). 473062
Radioactivity in the lower stratosphere. (B33, B11). [Data] 476487
Radiological survey of plants, animals, and soil in micronesia. (B31, C22, C21). [Data] 460864
radioecological concentration
Progress report on a study of contamination of the human food chain by uranium mill tailings piles. (B31; ^{210}Th , ^{226}Ra , ^{210}Pb , ^{210}Po). 479597
radionuclide kinetics
Mathematical model of ^{210}Pb metabolism in rats. (C21). 463223
solubility
Solubility classification of airborne products from uranium ores and tailings piles. (C54, B13, C21; Solubility parameters are based on airborne and sieved ground dust samples). [Data] 469988
washout
Determination of the ^{210}Pb , ^{210}Po and Pb washout coefficients using the measurements of their ground level concentrations and of their fallout. (B33). 479730
- LEAD 212:**
diffusion
Diffusion coefficients of decay products of radon and thoron. (B33, C52, B12). [Data] 460939
environmental exposure pathway
Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
- LEAD 214:**
diffusion
Diffusion coefficients of decay products of radon and thoron. (B33, C52, B12). [Data] 460939
monitoring
Optimizing measurement sensitivity to facilitate monitoring environmental levels of Rn-daughter concentrations. (B33, B32). 469562
radioecological concentration
Optimizing measurement sensitivity to facilitate monitoring environmental levels of Rn-daughter concentrations. (B33, B32). 469562
- LEAK DETECTORS:**
Technique for detecting liquid metal leaks. (E35; Patent). 488119
steam generators
Method of detecting liquid metal leaks. (E35). 477276
tubes
Method of detecting liquid metal leaks. (E35). 477276
- LEAK TESTING:**
errors
Measurement error in pressure-decay leak testing. (E13). 480387

- ultrasonic testing**
Arrangement for the electronic ultrasonic leak testing. (E17). 491700
- LEAKAGE:**
See LEAKS
- LEAKAGE (NEUTRON):**
See NEUTRON LEAKAGE
- LEAKS:**
nitrogen 16
Testing various gamma detectors designated to finding leakages in heat transfer systems of nuclear plants by detecting N-16 radiation. (E41, E30). 482816
- LEAST SQUARE FIT:**
errors
A note on least squares fitting with normalization parameters. (A33). 483770
- LEAVES:**
amino acids
A preliminary study of the nitrogen nutritional status of members of the South African Proteaceae. (C41). 463292
nutrition
A preliminary study of the nitrogen nutritional status of members of the South African Proteaceae. (C41). 463292
quantitative chemical analysis
Elemental concentration in fruits and leaves of chicko and mango under natural environmental conditions. (B11). [Data] 483998
- LECTITHINS:**
contrast media
Lecithine as an adjuvant in resorption of contrast medium in oral cholecystography. (C61). 473370
oxidation
Corticosteroid (methylprednisolone) modulation of photoperoxidation by ultraviolet light in liposomes. (C11). [Data] 484463
- LED:**
See LIGHT EMITTING DIODES
- LEED:**
See ELECTRON DIFFRACTION
- LEGAL ASPECTS:**
brazil
Progress in food irradiation: Brazil. (C43). 482143
- LEGISLATION:**
economy
Act of 5 August 1958 relating to economic and budgetary reforms. (F27). 463818
workmens compensation
Royal Order of 28 March 1969 listing occupational diseases giving rise to compensation. (F25). 463812
- LEGS:**
See also FEET
arteriosclerosis
Effect of intra-arterial CO₂ insufflation on occlusive arterial disease in the lower leg. (C61). 491280
biological radiation effects
Secondary malignant neoplasms following radiotherapy of a mouse mammary carcinoma. (C14, C63, C15). 469675
bone joints
Arthrography of the ankle. (C61). 473372
Gastrocnemio-semimembranosus bursa and its relation to the knee joint. IV. (C61). 473371
Gastrocnemio-semimembranosus bursa and its relation to the knee joint. III. (C61). 470047
Patella alta and gonarthrosis. (C61). 473330
Radiologic determination of rotational instability of the knee joint. (C61). 473368
- LEGUMINOSAE:**
See also GLYCINE HISPIDA; PHASEOLUS; PISUM; VICIA
biological radiation effects
Seed germination and seedling growth in mun.o. bean as affected by gamma radiation and ethyl methyl sulfonate. (C41). 494366
plant breeding
Homologous leaf mutations induced in small- and large seeded lentils and their effect on some economic characters. (C41). 463308
plant growth
Neutron radiography: a technique for studying young roots growing in soil. (C13; Effects of irradiation, depth of planting, and seed orientation on growth of root shoots). [Data] 461029
Seed germination and seedling growth in mun.o. bean as affected by gamma radiation and ethyl methyl sulfonate. (C41). 494366
proteins
Increasing protein production in cereals and grain legumes. (C41). [Data] 463276
Seed protein improvement in cereals and grain legumes. (C41). 463285
radiation induced mutants
Early maturing bold seeded mutants in pigeon pea [Cajanus cajan (L.) Mill Sp.]. (C41). 482130
- LENINGRAD-1 REACTOR:**
economics
Improvement of the uranium utilization efficiency in the RBMK-1000 reactor. (E33). [Data] 488088
power distribution
Optimization of the power distribution in a large power reactor core. (E33; RBMK-1000 reactor). 480656
- LENS (CRYSTALLINE):**
See CRYSTALLINE LENS
- LENSES:**
See also ELECTROMAGNETIC LENSES; ELECTROSTATIC LENSES; FRESNEL LENS
computer-aided design
LASL lens design procedure: simple, fast, precise, versatile. (E42). 474138
glass
Effectiveness of glass lenses in reducing exposure to the eyes. (C15, C60, C54). 469676
Radiation protection of the lens for patients and users. (C15, C60, C54). 469708
X-ray attenuation by prescription lenses. (C15, C60, C54). 469731
specifications
PLZT thermal/flash protective goggles: device concepts and constraints. (C54; USAF EBU-2/P). 494454
- LEP STORAGE RINGS:**
(European Large Electron-Positron storage rings.)
'Onium' new flavour identification. (A20, E16). 468001
Forward-backward asymmetries with quark jets. (A20, E16). 468005
accelerator facilities
Design of interaction regions. (E16). 470414
Space requirements in LEP experimental halls. (E16). 470406
beam dynamics
Design constraints in large e⁺e⁻ storage rings. (E16). 470394
beam injection
Microtron injector for LEP. (E16). 480450
buildings
Site and buildings. (E16). 470430
electromagnetic interactions
Experimentation at LEP: weak-electromagnetic interference, QED and two-photon physics. (A20). 468004
electron-positron interactions
Detection of events with jet structure. (E41, E16). 470892
e⁺e⁻ physics beyond PETRA energies. (A20). 468006
Experimentation at LEP. (E16, A20). 470426
Weak-electromagnetic interference. (E16, A20). 470376
final-state interactions
Experimentation at LEP. Hadronic final states. (E16, A20). 470428
high energy physics
Scenarios for physics at LEP. (E16, A20). 470384
ionization chambers
Particle identification by ionization measurements in the LEP-JET detector. (E41, E16, A20). 470968
magnets
CERN: superconducting magnet for intersection 8; low field magnets for LEP. (E16). 480420
photon-photon interactions
γγ collisions: theoretical aspects. (A21). 468100
planning
The continuation of LEP studies within ECFA. (E16). 470420
Rome: ECFA LEP meeting. (E16). 480415
Steering the LEP project. (E16). 470365
polarized beams
Polarization at LEP energies. (E16). 470379
Polarized e⁺e⁻ beams in LEP. (E16, A22). 491645
The problem of radiative depolarization in the 'Siberian Snake'. (E16). 470413
radiation detection
Detection of events with jet structure. (E41, E16). 470892
Detectors for LEP: methods and techniques. (E41, E16). 470866
The LEP jet detector: event simulations and particle tracking. (E41, E16, A20). 470859
Particle identification by ionization measurements in the LEP-JET detector. (E41, E16, A20). 470968
research programs
e⁺e⁻ physics beyond PETRA energies. (A20). 468006
site selection
Site and buildings. (E16). 470430
specifications
Comments on the machine design study at Les Houches. (E16). 470417
Design constraints in large e⁺e⁻ storage rings. (E16). 470394
Machine parameters and characteristic features. (E16). 470393
superconducting cavity resonat
Superconducting accelerating cavities for high-energy e⁺e⁻ storage rings. (E16). 470371
synchrotron radiation
Design of interaction regions. (E16). 470414
tagged photon method
Design of interaction regions. (E16). 470414
weak interactions
Experimentation at LEP: weak-electromagnetic interference, QED and two-photon physics. (A20). 468004
- LEPROSY:**
nose
Radiological changes in the paranasal sinuses in lepromatous leprosy. (C61). 494500
- LEPTON BEAMS:**
See also ELECTRON BEAMS; MUON BEAMS; NEUTRINO BEAMS; POSITRON BEAMS
- LEPTON NUMBER:**
See also MUON NUMBER
- LEPTON REACTIONS:**
See also ELECTROFISSION; ELECTRON REACTIONS; MUON REACTIONS; NEUTRINO REACTIONS
deep inelastic scattering
On the deep inelastic lepton-nucleus scattering. (A33). 493186
nuclear reaction kinetics
Lepton- and meson-induced excitations in nuclei. (A34). 486373
- LEPTON-BARYON INTERACTIONS:**
See also ANTINEUTRINO-NEUTRON INTERACTI; ANTINEUTRINO-NUCLEON INTERACTI; ANTINEUTRINO-PROTON INTERACTIO; DEEP INELASTIC SCATTERING; ELECTRON-NEUTRON INTERACTIONS;

- ELECTRON-NUCLEON INTERACTIONS; ELECTRON-PROTON INTERACTIONS; LEPTON-NUCLEON INTERACTIONS; MUON-NUCLEON INTERACTIONS; MUON-PROTON INTERACTIONS; NEUTRINO-NUCLEON INTERACTIONS; NEUTRINO-NUCLEON INTERACTIONS; NEUTRINO-PROTON INTERACTIONS*
- LEPTON-HADRON INTERACTIONS:**
See also ANTINEUTRINO-NEUTRON INTERACT; ANTINEUTRINO-NUCLEON INTERACT; ANTINEUTRINO-PROTON INTERACT; DEEP INELASTIC SCATTERING; ELECTRON-NEUTRON INTERACTIONS; ELECTRON-NUCLEON INTERACTIONS; ELECTRON-PROTON INTERACTIONS; LEPTON-NUCLEON INTERACTIONS; MUON-NUCLEON INTERACTIONS; MUON-PROTON INTERACTIONS; NEUTRINO-NUCLEON INTERACTIONS; NEUTRINO-NUCLEON INTERACTIONS; NEUTRINO-PROTON INTERACTIONS
- deep inelastic scattering**
 Charged-gluon effects in dilepton production. (A21, A11). 475594
 Deep inelastic lepton-hadron processes in gauge models with massive vector gluons. (A21). 493073
 Theory of deep inelastic lepton-hadron scattering. (A11). 467050
- inclusive interactions**
 Status of xi-scaling. (A21; Review). 475622
- polarization**
 Polarized lepton-hadron scattering. (E16, A22). 491610
- quantum chromodynamics**
 Deep inelastic lepton-hadron processes in gauge models with massive vector gluons. (A21). 493073
- quark model**
 Composite model and hadron reactions. (A21). 468078
- scattering**
 Leptons: a probe for hadronic matter, past and future seen by experimentalist. (A12, A22, A34). 471313
- LEPTON-LEPTON INTERACTIONS:**
See also ANTINEUTRINO-ELECTRON INTERACT; ELECTRON-ELECTRON INTERACTIONS; ELECTRON-MUON INTERACTIONS; ELECTRON-POSITRON INTERACTIONS; NEUTRINO-ELECTRON INTERACTIONS; NEUTRINO-NEUTRINO INTERACTIONS
- neutral-current interactions**
 Neutral-current results without gauge theories. (A21). 464758
- weinberg lepton model**
 Neutral-current results without gauge theories. (A21). 464758
- LEPTON-NEUTRON INTERACTIONS:**
See also ANTINEUTRINO-NEUTRON INTERACT
- LEPTON-NUCLEON INTERACTIONS:**
See also ANTINEUTRINO-NEUTRON INTERACT; ANTINEUTRINO-NUCLEON INTERACT; ANTINEUTRINO-PROTON INTERACT; DEEP INELASTIC SCATTERING; ELECTRON-NEUTRON INTERACTIONS; ELECTRON-NUCLEON INTERACTIONS; ELECTRON-PROTON INTERACTIONS; MUON-NUCLEON INTERACTIONS; MUON-PROTON INTERACTIONS; NEUTRINO-NEUTRON INTERACTIONS; NEUTRINO-NUCLEON INTERACTIONS; NEUTRINO-PROTON INTERACTIONS
- deep inelastic scattering**
 Hadrons and quarks in high energy collisions. (A22, A21). 464916
 Quark and gluon jets in the Breit frame of lepton-nucleon scattering. (A21). [Data] 464860
 Topics in deep inelastic scattering. (A21, A11; Structure functions, sum rules, dimensional regularization). 460217
- LEPTON-PROTON INTERACTIONS:**
See also ANTINEUTRINO-PROTON INTERACTIO
- LEPTONIC DECAY:**
lagrangian function
 On the problem of nondiagonal leptonic processes. (A21; (μ -e) decay, ν_e (anti ν_e), ν_μ (anti ν_μ) scattering, $\mu^+\mu^-$ annihilation). 493080
- su-3 groups**
 $\pi\gamma$ decays of ρ , ω and ϕ in a nonet symmetry scheme. (A21). 462536
- LEPTONS:**
See also ANTINEUTRINOS; ELECTRON ANTINEUTRINOS; ELECTRON NEUTRINOS; ELECTRONS; HEAVY LEPTONS; MUON ANTINEUTRINOS; MUON NEUTRINOS; MUONS; MUONS MINUS; MUONS PLUS; NEUTRINOS; POSITRONS; PROMPT ELECTRONS; RUNAWAY ELECTRONS; SOLVATED ELECTRONS; TAU NEUTRINOS; TAU PARTICLES; TRAPPED ELECTRONS
 Tau: the third generation lepton. (A21). 481364
- basic interactions**
 On new possible lepton interactions. (A21). 493058
- bound state**
 Finite renormalization, flavor mixing, and weak decays. (A21, A11). 486034
- elementary particles**
 Spino ether and its vortices: leptons and hadrons. (A21, A15). 468140
- mass**
 Mass without scalars. (A21, A11). 489767
 Statistical analysis of quark and lepton masses. (A21). 489787
- meetings**
 Report of conference on leptons and quarks. (A21, A22; Conference summary). 471983
- multiple production**
 Neutrino-induced multilepton events arising from the associated production of charmed particles. (A22, A21). 486143
 Radiative and hadronic tetraelectron production by neutrinos. (A21). [Data] 464750
- multiplets**
 Primitive particle model. (A21, A11). 468113
- pair production**
 Bremsstrahlung production of massive lepton pairs in quantum chromodynamics. (A21; Scattering amplitudes, quantum chromodynamics, coupling constants). 464754
 Chromodynamics and the Feynman-x dependence of lepton pairs in hadron collisions. (A21, A11). 464803
- Connection between the leading logarithms and hard scattering approaches to lepton pair production. (A21). 462578
 Hadron induced lepton production. (A22). 493104
 Hadroproduction of massive lepton pairs and tests of QCD. (A20, A21; Transverse momentum distribution dependence). 468003
 Lepton pair production: where the simple Drell-Yan picture breaks down. (A21). 489774
 Lepton pair production in hadron reactions. Phenomenological aspects. (A21). 489876
 Multilepton final states and the weak interactions of the fifth quark. (A21). 475623
 Quantum chromodynamic rescattering effects off nuclear targets. (A21). 483663
 Quark structure functions of mesons and the Drell-Yan process. (A21, A11). 478405
 Recent theoretical developments in lepton pair production. (A21; Perturbative, quantum chromodynamics, leading log approximation, total cross sections). 475582
 Review of the theory and phenomenology of lepton pair production. (A21, A22; Review Drell-Yan mechanism, parton distribution, gluon radiation, quantum chromodynamics, transverse momentum). 464805
 Scale violations and the quark-gluon correction to the Drell-Yan formalism. (A21, A11). 486028
 Simple prediction of quantum chromodynamics for angular distribution of dileptons in hadron collisions. (A21, A11). [Data] 464766
- Suppression factor in the leptonic and hadronic decays of UPSILON family. (A21). 475543
 The transverse momentum behaviour of hadrons, multihadron systems, and lepton pairs. (A21). 472048
- particle production**
 On scaling violations and anomalies. (A21). 462532
 QCD and jets in lepton production. (A21). 478499
 Quark-gluon plasma and production of leptons, photons and pions in hadron collisions. (A21; e^+ , μ^+ , tau/PSI, chi, PSI'). 493082
- particle structure**
 On new possible lepton interactions. (A21). 493058
- self-energy**
 Finite renormalization, flavor mixing, and weak decays. (A21, A11). 486034
- transverse momentum**
 The transverse momentum behaviour of hadrons, multihadron systems, and lepton pairs. (A21). 472048
- LET:**
 Inactivation of phage phiX 174 by accelerated ions enhanced delay-ray effect by air layer in front of the samples. (C12; α particles and neon ions). [Data] 476542
- biological radiation effects**
 Study of quality effects on radiobiological actions, 1. (C11). 481988
- radiation dose distributions**
 LET in dose distributions, from spectral measurements of charged particles emitted at the capture of negative pions in biologically significant materials. (C11, C55). [Data] 465920
- radiation effects**
 Dependence of solid irradiation effect on energy endowing ratio. (A13). 488999
- radiation quality**
 Study of quality effects on radiobiological actions, 1. (C11). 481988
- radiosensitivity**
 1. Carcinogenesis in mice after low doses and dose rates. (C14). 479867
- New approach to the analysis of survival data. (C11; Definition of parameters determined from data without regard to any assumed mechanism of action). 472924
 Relative biological effectiveness of low- and high-LET radiotherapy beams for jejunal crypt cell survival at low doses per fraction. (C14, C63, C15). 487212
- Response of diploid yeast to radiations at different LET. I. potentially lethal and lethal damage to reproductive capacity. (C14; *Saccharomyces cerevisiae*). 469629
- radiotherapy**
 The RBE at various positions in and near a large negative pion beam. (C11, C55). 465869
- rbe**
 Dose limits and Quality Factors: the Devil's view. (C11, C55). [Data] 460960
- LETHAL IRRADIATION:**
biological radiation effects
 Biological ionizing radiation effects. (C15). 479921
- cell differentiation**
 B lymphocyte differentiation in lethally irradiated and reconstituted mice. (C14). 461055
- escherichia coli**
 Influence of unsaturated fatty acids, membrane fluidity and oxygenation on the survival of an *E. coli* fatty acid auxotroph following γ -irradiation. (C12). 494284
- lymphocytes**
 B lymphocyte differentiation in lethally irradiated and reconstituted mice. (C14). 461055
- radiation protection**
 Effectiveness of combined protection (protective drug and local shielding) of animals against acute energetic protons. (C14). 465988
- response modifying factors**
 Influence of unsaturated fatty acids, membrane fluidity and oxygenation on the survival of an *E. coli* fatty acid auxotroph following γ -irradiation. (C12). 494284
 Longevity studies in rhesus monkeys after X-ray and neutron

- irradiation with special emphasis on tumour induction. (C14). 482056
- [Data]**
- LETHAL MUTATIONS:**
- biological repair**
- Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- radiation effects**
- Radiosensitivity of the mouse embryo and dominant lethal mutation induction by ionizing radiation or methyl methanesulfonate analyzed in vitro. (C14; X radiation). 461037
- Repair in fertilized eggs of mice and its role in the production of chromosomal aberrations. (C14; Comparison of the effects of the chemical mutagens EMS, IMS, and TEM with the physical mutagen x rays). [Data] 494294
- LETHAL RADIATION DOSE:**
- (Referring to a percentage kill, frequently with a time indication.)
- dose rates**
- Effect of dose rate on intestinal tolerance in mice. Implications in radiotherapy. (C14, C63, C55). [Data] 490976
- LETHALS:**
- See LETHAL MUTATIONS
- LEUCINE:**
- intestinal absorption**
- The uptake in vitro of dyes, monosaccharides and amino acids by the filarial worm *Brugia pahangi*. (C31). 487319
- radiolysis**
- Corrected G-values for amino acids and their complexes. (B14). [Data] 472544
- radionuclide kinetics**
- Studies on the distribution of radioactivity in the organism during constant intravenous infusion of tracer amino acids and on the calculation of the rate of tissue protein synthesis in rats. (C21). 476622
- LEUCOCYTES:**
- See LEUKOCYTES
- LEUKEMIA:**
- See also MYELOID LEUKEMIA
- Correlation of total body potassium and leukemic cell mass in patients with chronic lymphocytic leukemia. (C15; Gamma radiation). [Data] 487241
- Iatrogenic leukemia. (C15). 473014
- Protective environment for marrow transplant recipients. A prospective study. (C60, C15). 461367
- a-bomb survivors**
- Prevalence of leukaemia and salivary gland tumours among Hiroshima atomic bomb survivors. (C15). 479918
- chemotherapy**
- Clinical treatment, care and prognosis. Acute leukemia after treatment and other malignant illness. (C63). 473515
- diagnosis**
- Clinical treatment, care and prognosis. Acute leukemia after treatment and other malignant illness. (C63). 473515
- immunosuppression**
- Identification of an MLC suppressor cell population in acute leukemia. (C11; Gamma radiation). 460952
- infants**
- Cranial irradiation of leukaemia in childhood. (C63). 473503
- local fallout**
- Evidence of a possible association between childhood leukaemia and fallout from nuclear testing. (C21). [Data] 479935
- radiation effects**
- Childhood leukemias associated with fallout from nuclear testing. (C15, B33, E14; Incidence in Utah children under 15 years old between 1951 and 1958). [Data] 473010
- Dose-response relationship of neutrons and γ rays to leukemia incidence among atomic bomb survivors in Hiroshima and Nagasaki by type of leukemia, 1950-1971. (C15). 476584
- Offspring of patients treated for cancer in childhood. (C15). 487260
- Ratio of cytochromes in radiation-induced leukemia cells of mice. (C14; x-ray). 461044
- Therapy-related leukemia. A panmyelosis. (C15, C63, C64). 487249
- radiotherapy**
- Clinical treatment, care and prognosis. Acute leukemia after treatment and other malignant illness. (C63). 473515
- Phase-II trial of fractionated total body radiation in bone marrow transplantation for acute leukemia. (C15; X radiation). [Data] 466157
- Radiotherapy for chronic lymphatic leukaemia. (C63). 463469
- therapy**
- Bone marrow transplantation. (C14; Mice, gamma radiation). 466109
- LEUKEMOGENESIS:**
- Fundamental aspects of cancer induction in relation to the effectiveness of small doses of radiation. (C11). [Data] 481978
- Haemopathological consequences of protracted gamma irradiation in the beagle. Pre-clinical phases of leukaemia induction. (C14). 479855
- dose-response relationships**
- Dose-response relationship of neutrons and γ rays to leukemia incidence among atomic bomb survivors in Hiroshima and Nagasaki by type of leukemia, 1950-1971. (C15). [Data] 476584
- LEUKOCYTES:**
- See also LYMPHOCYTES; NEUTROPHILS
- acute irradiation**
- Limited epithelial carcinoma of the ovary treated with curative intent by the intraperitoneal installation of radiocolloids. (C15, C63, C64; ^{198}Au colloid or ^{32}P -colloidal chromic phosphate + ^{60}Co or 2 MeV Bremsstrahlung external pelvic irradiation). 461076
- antithyroid drugs**
- The influence of non-steroidal anti-inflammatory and antithyroid agents on myeloperoxidase-catalysed activities of human leucocytes. (C21). 482106
- biological half-life**
- Studies on granulocyte kinetics by means of ^{32}P -labelled diisopropylfluorophosphate and ^{51}Cr . (C62). 470142
- biological radiation effects**
- Changes of adenine nucleotides content of human lymphocytes and granulocytes following gamma-irradiation. (C11). [Data] 494262
- Effect of x irradiation on survival of rabbits with staphylococcal B enterotoxemia. (C14). 461048
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 487254
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
- Morpho-functional studies with irradiated turtle (*T. Horsfieldi*) blood cells. (C11). 463050
- Suppression of leukocyte inhibitory factor (LIF) production and ^3H thymidine incorporation by concanavalin A-activated mononuclear cells. (C11). [Data] 472912
- chemical composition**
- Early effects of inhaled $^{239}\text{Pu}(\text{NO}_3)_4$ aerosols in beagle dogs. (C21). [Data] 473048
- chemiluminescence**
- Chemiluminescence and the microbicidal metabolism of polymorphonuclear leukocytes: an overview and some new findings. (A12, C11). 485389
- chromosomes**
- Interspecific comparisons of the sensitivity to chromosome aberration production by x rays. (C15, C14; Comparative in vitro radiosensitivity of leukocyte chromosomes from mice to man). 469686
- colony formation**
- Enhanced granulocyte growth on peritoneal cell-coated membranes following irradiation: a dual effect of humoral stimulation and repair of x ray-induced damage to the microenvironment. (C14). 461057
- diagnosis**
- Studies on granulocyte kinetics by means of ^{32}P -labelled diisopropylfluorophosphate and ^{51}Cr . (C62). 470142
- extracorporeal irradiation**
- Effects of irradiation and storage on granulocytes harvested by continuous-flow centrifugation. (C15). 479920
- fluorescence**
- Radiation-dependent changes in leukocyte secondary fluorescence of rats. (C14). 469655
- immunosuppression**
- Suppression of leukocyte inhibitory factor (LIF) production and ^3H thymidine incorporation by concanavalin A-activated mononuclear cells. (C11). [Data] 472912
- labelling**
- Autologous leukocyte labelling with sup(99m)Tc-oxine complex. Experimental study and clinical applications in the detection of abscesses. (B13). 484071
- Radioactive indium labelling of the figured elements of blood. Method, results, applications. (B13, C62). 484073
- Technetium-99m-labeled mouse-spleen leukocytes: radiolabeling parameters. (C45, C31, C62). [Data] 473159
- Use of autologous Tc-labelled leucocytes in the detection of abscesses. (C31). 463258
- life span**
- Cell labelling. Granule and platelet kinetics. Recent concepts. (C31). 484602
- metabolism**
- Chemiluminescence and the microbicidal metabolism of polymorphonuclear leukocytes: an overview and some new findings. (A12, C11). 485389
- radiopharmaceuticals**
- Imaging experimental infective endocarditis with indium-111-labeled blood cellular components. (C62, C21; Rabbits, aortic valve). 487730
- storage**
- Effects of irradiation and storage on granulocytes harvested by continuous-flow centrifugation. (C15). 479920
- x radiation**
- Radiation-dependent changes in leukocyte secondary fluorescence of rats. (C14). 469655
- LEUKOPENIA:**
- See also LYMPHOPENIA
- radiation effects**
- Early effects of inhaled $^{239}\text{Pu}(\text{NO}_3)_4$ aerosols in beagle dogs. (C21). 473048
- Effect of x irradiation on survival of rabbits with staphylococcal B enterotoxemia. (C14). 461048
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 487254
- Hydroxyurea or placebo combined with radiation to treat stages IIIB and IV cervical cancer confined to the pelvis. (C15, C63, C64; External γ radiation and intracavitary cesium, cobalt or radium). 476582
- Long term follow-up of combination chemotherapy-radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253

- Preventive central nervous system irradiation in children with acute nonlymphocytic leukemia. (C15; Complications of γ radiation). 469690
- LEUKOPOIESIS:**
Cell labelling. Granule and platelet kinetics. Recent concepts. (C31). 484602
- LEVEL INDICATORS:**
 casting molds
Ionizing radiation source for cast iron moulds in continuous casting equipment. (D14). 482513
 cryogenic fluids
Liquid-helium level indicator. (E12). 487848
 electric probes
Inductive measuring device for the height of the liquid metal level. (E42, E35). 466852
 helium
A floating level indicator for liquid helium. (E12). 463533
 liquids
Device for level measurement in electrically conductive liquids. (E42). 471000
 performance
Precision contact level gauge. (E42). 495160
 radiometric gages
Feasibility studies for level gaging of liquid gas capsules with a radioisotope level indicator. (D22). 482532
 specifications
Device for monitoring a radioactive filling level measuring installation. (D22; Patent). 480312
- LEVEL SCHEMES:**
See **ENERGY LEVELS**
- LEVEL WIDTHS:**
 eigenvalues
On the formalism of the complex energy eigenvalue in the alpha decay study. (A33). 481505
 shell models
Exact calculations of fixed JT centroids and widths in large shell-model spaces. (A33). 472162
- LEVELS:**
(Limited to vertical distance; see also **ENERGY LEVELS**.)
See also **SEA LEVEL**; **UNDERGROUND**; **UNDERWATER**
 variations
Procedure for altitude compensation for a flame-photometric sulfur analyzer. (E42). 480803
- LEVITRON DEVICES:**
 beam injection heating
Observation of beam-induced currents in a toroidal plasma. (A14). 464479
 electric fields
Ambipolar electric fields and turbulence studies in the Wisconsin Levitated Toroidal Octupole. (A14). 471604
 plasma waves
Electrostatic waves in the Culham Levitron. (A14). 462265
 turbulence
Ambipolar electric fields and turbulence studies in the Wisconsin Levitated Toroidal Octupole. (A14). 471604
- LH:**
 biological radiation effects
Serum FSH, LH, and testosterone in ^{60}Co γ -irradiated male rats. (C14, C62). 461034
 gonadotropins
Effect of luteinizing hormone on the concentration of cyclic GMP in rabbit ovaries. (C45). [Data] 463347
 iodination
Micro-electrolytic iodination of polypeptide hormones. (B13). 484086
 radioimmunoassay
Dried *Staphylococcus aureus* as a rapid immunological separating agent in radioimmunoassays. (C62). [Data] 487753
Gonadotropin determination in 24-h-urine by sensitive LH and FSH radioimmunoassays. (C62). 487728
Hormone levels in peripheral plasma of the Afrikaner cow: Pt. 1. (C45). [Data] 469868
Hypothalamo-hypophyseal-gonadal system in male rats and guinea pigs treated with the antiandrogen 4-nitro-3-trifluoromethylisobutyranilide. (C21, C45). 482095
Reduction of non-specific serum responses in human pituitary gonadotrophin radioimmunoassays. (C45). [Data] 473169
Serum FSH, LH, and testosterone in ^{60}Co γ -irradiated male rats. (C14, C62). 461034
- LI-DRIFTED DETECTORS:**
See also **LI-DRIFTED GE DETECTORS**; **LI-DRIFTED SI DETECTORS**
- LI-DRIFTED GE DETECTORS:**
Device for the detection or measurement of ionizing radiation. (E41). 477386
 biomedical radiography
Merit of Ge and Na(Tl) detectors as determined by image efficiency and scatter rejection. (C62, E41). 491356
 calibration
Gamma ray intensity standards for calibrating Ge(Li) detectors for the energy range 200-1700 KeV. (A32, E41). 475699
Precise γ -ray energies for calibration of Ge semiconductor spectrometers to 3.5 MeV. (E41). 470879
 calibration standards
Relative γ -ray intensities for calibration of Ge(Li) detectors. (E41, D15). 485079
 czechoslovak organizations
The current state and prospects of the development and production of semiconductor radiation detectors and their application in the Czechoslovak national economy. (E41). 482839
- data processing**
Modified version of SAMPO for TSO graphics analysis of nuclear spectroscopic data. (E41; In Fortran for IBM 3033). 466770
 efficiency
Constrained model-based representations of X-ray detector efficiency curves. (E41, F51). 485045
Effect of crystal geometry and gamma radiation beam collimation on the Ge(Li) detector efficiency. (E41). 495113
Gamma ray intensity standards for calibrating Ge(Li) detectors for the energy range 200-1700 KeV. (A32, E41). 475699
A method for estimation of Ge(Li) detector dead layer. (E41). 495106
[Data]
Using $K_{\text{sub}}(\beta)/K_{\text{sub}}(\alpha)$ X-ray intensity ratios to obtain the efficiency curve of a planar Ge(Li) detector. (E41). 480764
 gamma spectroscopy
Application of Ge(Li) detectors for gamma spectrometric analysis of environmental samples. (E41). 466832
 images
Merit of Ge and Na(Tl) detectors as determined by image efficiency and scatter rejection. (C62, E41). 491356
 low level counting
Ultimate detection sensitivity of Ge-Li γ -ray spectrometers. (E41). 482819
 peaks
On the analytic fitting of full energy peaks from Ge(Li) and Si(Li) photon detectors. II. (E41). 470846
 performance
Evaluation of well-type Ge(Li) detectors for low-level radiochemical analysis. (E41). 466763
In-situ environmental gamma-ray spectrometry using an upward-looking dip-stick type Ge(Li) detector. (E41). 466821
 self-absorption
Spectrum interpretation problems with well-type Ge(Li) detectors due to self-absorption variations. (E41). 470842
 time resolution
Constant slope timing for nuclear semiconductor detectors. (E41). 492136
 timing circuits
Constant slope timing for nuclear semiconductor detectors. (E41). 492136
- LI-DRIFTED SI DETECTORS:**
Improvement of semiconductor radiation detector specifications by infrared and gamma radiation. (E41). 470952
 alpha spectroscopy
Alpha spectrometry by means of Li-drifted Si detectors. (B11). 486522
 czechoslovak organizations
The current state and prospects of the development and production of semiconductor radiation detectors and their application in the Czechoslovak national economy. (E41). 482839
 electric conductivity
Peculiarities of electrophysical characteristics of the Si(Li)-detectors made by means of Li ion implantation. (E41). 495088
 electron detection
Detection system for analysis of scattered electrons. (E41). 495066
 electron spectrometers
A combination intermediate-image magnetic plus Si(Li) electron spectrometer for in-beam experiments. (E41). 470911
 electrons
Li-drifted Si detectors for electron and soft X radiation spectrometry. (E41). 477406
 energy losses
Escape peak losses in Si(Li) detectors. (E41). [Data] 474124
 energy resolution
Peculiarities of electrophysical characteristics of the Si(Li)-detectors made by means of Li ion implantation. (E41). 495088
 escape peaks
Escape peak losses in Si(Li) detectors. (E41). [Data] 474124
 fabrication
Thin window Si(Li) detectors for the ISee-C telescope. (E41). 466837
 ion implantation
Measurement of distribution profile of implanted lithium in silicon detectors by means of the (p, γ)-resonance technique. (E41). 495089
 noise
The response of Si(Li) detector systems to microphonics. (E41). 470897
 peaks
On the analytic fitting of full energy peaks from Ge(Li) and Si(Li) photon detectors. II. (E41). 470846
 performance
Semiconductor detectors, recent progress. (E41). 474123
 soft x radiation
Li-drifted Si detectors for electron and soft X radiation spectrometry. (E41). 477406
 specifications
Two-dimensional position sensitive Si(Li) detector. (E41). 488281
 x-ray detection
A high-resolution Si(Li) spectrometer with thermoelectric cooling. (E41). 470912
 x-ray diffractometers
Applications of a solid-state detector on a modern single-crystal X-ray diffractometer. (E41). 485105
 x-ray spectrometers
Soft X ray spectrometry at high count rates. (E41, A14). 463705
- LIABIL CONV ON THIRD PARTY, PA:**
See **PCOTPL**
- LIABILITIES:**
See also **NUCLEAR LIABILITY**

- legal aspects**
German atomic energy law and radiation protection law. (F22, F25). 462009
- LICENSES:**
See also **CONSTRUCTION PERMITS; OPERATING LICENSES**
controlled areas
A permit-to-work certification scheme for use in health building laboratories. (C53). 473284
- legal aspects**
Relevance in print of law of administrative regulations according to paragraph 48 BImSchG in the licensing procedure. (F22). 482939
- LICENSING:**
See also **REACTOR LICENSING**
nuclear trade
Royal Order of 27 July 1966 relating to the reciprocal recognition of licences for the import, transport, transit, and distribution of radioactive substances between the countries of the Benelux Economic Union. (F21). 466923
- radioactive materials**
Act of 29 March 1958 relating to the Protection of the Population against the Hazards of Ionizing Radiations. (F23). 463800
- waste management**
Act No. 430 of 7 June 1978 amending Sections 4 and 5. (F22). 463799
- LICENSING PROCEDURES:**
air pollution
Relevance in print of law of administrative regulations according to paragraph 48 BImSchG in the licensing procedure. (F22). 482939
- comparative evaluations**
Nuclear power stations licensing. (F22). 482944
- data processing**
Data system for licensing requirements for nuclear power plants. (E30). 461662
- Licensing in a grid. (E30, F22). 488017
- lawsuits**
Provisional legal aid in the nuclear licensing procedure. (F22). 482943
- legal aspects**
Administrative Procedure Act and mass procedures (illustrated by the nuclear licensing procedure). (F22). 480919
- Danger defence and risk provision in nuclear law. (F22, E32). 488421
- Factors of site selection for nuclear power plants in selected industrial states. (F11, F22, E30). 482933
- Record inspection in licensing procedures under nuclear and immission protection law. (F22). 477514
- nuclear facilities**
Ministerial Order of 24 July 1964 approving the Rules of Procedure of the Special Commission set up by Section 6.5 of the Royal Order of 28 february 1963 embodying the general Regulations for the Protection of the Population and Workers against the Hazards of Ionizing Radiations. (F27). 463817
- LICENSING REGULATIONS:**
cost
Draft of a bill on changes in the cost specifications of Atomic Energy Law. (F22). 471122
- us nrc**
The role of the USNRC in power reactor exports. Legal and procedural aspects. (F61, F22). 495322
- LICHENS:**
photosynthesis
Effect of leaf age on light and dark $^{14}\text{CO}_2$ fixation in a CAM plant, Bryophyllum calycinum. (C45). 469883
- radioactivity**
Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111
- Determination of ^{241}Pu in environmental samples by liquid scintillation counting: preliminary report. (C22). 473106
- Studies on behaviour of transuranic elements in plants. (C22, C21). [Data] 473108
- radionuclide kinetics**
Caesium-137 in the foodchain lichen-reindeer-man during 1976 to 1978. (C22, C21). [Data] 473111
- Studies on behaviour of transuranic elements in plants. (C22, C21). [Data] 473108
- LIE GROUPS:**
See also **CONFORMAL GROUPS; DE SITTER GROUP; GRADED LIE GROUPS; O GROUPS; POINCARÉ GROUPS; SL GROUPS; SO-3 GROUPS; SO-4 GROUPS; SP GROUPS; SU GROUPS; SU-2 GROUPS; SU-3 GROUPS; SU-4 GROUPS; SU-6 GROUPS; U-1 GROUPS**
On the derivations of certain semi-direct products. (A11). 471244
- Time evolution in equilibrium states without time automorphism. (A11). 459692
- algebra**
Deformation cohomology of the primitive infinite Lie algebras. (F51). 485247
- Dual sets in associative algebras and generalized Lie algebras. (F51). 485244
- On labelling the basis in Gln and identifying the Racah algebra with $\text{Ssub}(N)$. (F51). 485252
- On the stability of semisimple superalgebras. (A11). 463906
- Quartic trace identity for exceptional Lie algebras. (A11). 463915
- equations of motion**
Benney's long wave equations. (A11). 492455
- functional analysis**
Quantum systems and symmetrical spaces of nonpositive curvature. (A11). 477664
- invariance principles**
On subgroups of physical symmetry groups and their invariant 'electromagnetic' fields and potentials. (A11). 482995

- Quartic trace identity for exceptional Lie algebras. (A11). 463915
- racah coefficients**
The calculator of 6j symbols for compact groups. (F51). 485234
- LIE SUPERALGEBRA:**
See **GRADED LIE GROUPS**
- LIEBIGITE:**
infrared spectra
Infrared spectra of liebigite, andersonite, voglite, and schroeckingerite. (B13). 486728
- LIFE SHORTENING:**
See **LIFE SPAN**
- LIFE SPAN:**
a-bomb survivors
The hypothesis of radiation-accelerated aging and the mortality of Japanese A-bomb victims. (C15). [Data] 479887
- biological radiation effects**
Accelerated aging in combined stress environments. (C12; Combined radiation and temperature effects on aging (survival) of *Bacillus subtilis*). 469609
- Dose-effect studies with inhaled plutonium oxide in beagles. (C21; ^{238}Pu , ^{239}Pu). [Data] 473079
- Early effects of inhaled $^{239}\text{Pu}(\text{NO}_3)_3$ aerosols in beagle dogs. (C21). [Data] 473048
- Environmental physiology. (C14; Gamma radiation, rodents). 469633
- Life shortening in RFM and BALB/c mice as a function of radiation quality, dose, and dose rate. (C14). [Data] 476571
- Neutron and gamma-ray toxicity studies. (C14; Mice, beagles, ^{131}Xe tracer technique). 469625
- Respiratory tract tumors in Syrian hamsters following inhalation of $\text{Pu}-\text{ZrO}_2$ particles. (C21; Comparison with incidence of lung tumors following intravenous injection of $\text{PuO}_2/\text{ZrO}_2$ microspheres). 473099
- genetics**
The genetics of aging in optimal and stressful environments. (C12). [Data] 461019
- temperature dependence**
Accelerated aging in combined stress environments. (C12; Combined radiation and temperature effects on aging (survival) of *Bacillus subtilis*). 469609
- Effect of thermal shock on developmental stages of estuarine fish. Final report. (B32). 465814
- LIFETIME:**
coincidence methods
Lifetime measurements using $\gamma-\gamma$ coincidence techniques following a heavy ion induced fusion evaporation reaction; ^{46}Ti , an example. (A34). 483915
- measuring methods**
The measurement of the lifetimes of excited nuclear states. (A34). [Data] 462637
- nuclear potential**
Gravitational, electromagnetic, and nuclear theory. (A11). 485271
- variations**
Influence of chemical environment on lifetimes in nuclear physics. (A34, A33). [Data] 468459
- LIGAMENTS:**
feet
Talofibular compartment of the ankle joint after recent ankle sprain. (C61). 480236
- LIGANDS:**
azo compounds
Labeling of a macrocyclic tetraaza ligand with $\text{sup}(99\text{m})\text{Tc}$. (B13). 472494
- LIGASES:**
biochemical reaction kinetics
Photocross-linking analysis of the contact surface of tRNA in complexes with *escherichia coli* methionine: tRNA ligase. (C11; UV radiation). 472918
- radioassay**
Improved radioisotopic assay for cytidine 5'-triphosphate synthetase (EC 6.3.4.2). (C62; ^{14}C tracer technique). [Data] 487750
- LIGHT:**
See **VISIBLE RADIATION**
- LIGHT (ZODIACAL):**
See **ZODIACAL LIGHT**
- LIGHT EMITTING DIODES:**
cherenkov counters
Multi-channel system of the stable light mark. (E41). 480790
- physical radiation effects**
Effect of electron irradiation on GaAs-emitting diode parameters. (A13). 488947
- LIGHT IONS:**
(Whenever appropriate use one of the specific terms listed under ION BEAMS.)
- physical radiation effects**
Light ion irradiation creep apparatus. (B25). 484312
- range**
Range-energy analytical dependence for light ions in materials with atomic number from 1 to 92. (A32; protons, deuterons, alpha particles and ^3He ions of 1-100 MeV). 464937
- LIGHT NUCLEI:**
(For nuclei with mass 1-40; for specific terms consult the APPENDIX.)
- beta decay**
Isovector M1-transitions and β decay of light nuclei. (A33). 493251
- cluster model**
A three-center shell model for ternary fission. (A33). 468295
- elastic scattering**
Multigroup P8 - elastic scattering matrices of main reactor elements. (A31, E21). [Data] 493118

- electron reactions**
Elastic electron scattering at large momentum transfer. (A33; Review). 486189
Future prospects for the few-nucleon problems with electromagnetic probes. (A33, A34). 468346
- energy levels**
Energy levels of light nuclei $A = 5-10$. (A33). 483721
Influence of the structure on the resonance parameters of states in light nuclei. (A11). 483092
Spin-dependent components of effective quasi particle interaction and states of the anomalous parity. (A33; ^{16}O , ^{40}Ca , ^{208}Pb). 493295
- energy-level transitions**
Nuclear axial dipole transition moment in the sigma model. (A33). 478658
- excited states**
On the form and partial widths of neutron resonance. (A33). 475779
- e2-transitions**
Electric quadrupole transitions in light nuclei. (A34; ^{10}B , ^{12}C , ^{14}N , ^{16}O , ^{18}F , ^{20}Ne , ^{22}Na , ^{24}Mg , ^{26}Al , ^{28}Si , ^{30}P , ^{32}S , ^{34}Cl , ^{36}Ar , ^{38}K , ^{40}Ca). 493422
- g matrix**
Problems in microscopic nuclear effective interaction calculations. (A33; G matrix). 460310
- ground states**
Ground state energies and RMS radii of even-even nuclei with energy density formalism. (A34). 468494
- group constants**
Multigroup resonance self-shielding factors and cross-sections of main reactor elements. (A31, E21). [Data] 493117
- high spin states**
Research with the EN Tandem accelerator. (A34). 483815
- kaon plus reactions**
Nuclear structure and the single charge exchange. (A33; 150 to 600 MeV). 472193
- kaon reactions**
Kaon interactions with very light nuclei. (A22, A34; Review, cross sections). [Data] 478549
- knock-on reactions**
Neutron and charged particle emission from light nuclei in 213 MeV/c π meson scattering. (A34, A33; the $(\pi, \pi n)$ reaction, where $x=p,d,T,^3\text{He},^4\text{He}$). 493372
- m1-transitions**
Estimation of M1 single-particle transitions in light nuclei. (A33; ^8Be , ^{10}B , ^{12}C , ^{14}N , ^{16}O , ^{18}F , ^{20}Ne , ^{22}Na , ^{24}Mg , ^{26}Al , ^{28}Si , ^{30}P , ^{32}S , ^{34}Cl , ^{36}Ar , ^{40}Ca). 493250
- neutron reactions**
Isovector M1-transitions and β decay of light nuclei. (A33). 493251
- neutron radii**
Neutron absorption cross sections of radioactive nuclides. (A34; Absorption parameters). 468555
- nuclear radii**
Ground state energies and RMS radii of even-even nuclei with energy density formalism. (A34). 468494
- nuclear reactions**
Problems in microscopic nuclear effective interaction calculations. (A33; G matrix). 460310
- nuclear structure**
Research with the EN Tandem accelerator. (A34). 483815
- nucleon-nucleon potential**
Two-dimensional boson model. (A33). 486264
- photoelectric emission**
Nuclear charge dependent interactions in the 1p shell. (A33). 486251
- photoelectric emission**
Further measurements of K shell photoelectric cross sections for some elements in the range $26 < Z < 41$ at 74 keV. (A12). 477703
- photofission**
On the peculiarities of spectra of light nucleus photofission products. (A33). 493183
- photonuclear reactions**
Future prospects for the few-nucleon problems with electromagnetic probes. (A33, A34). 468346
- photon absorption**
On the photon absorption by light nuclei. (A33; ^6Li , ^7Li , ^8Be , ^9Be , ^{12}C , ^{16}O , ^{28}Si , ^{40}Ca nuclei). 493182
- pion minus reactions**
Total photonuclear cross sections for light nuclei. (A34). [Data] 468582
- pion plus reactions**
Neutron and charged particle emission from light nuclei in 213 MeV/c π meson scattering. (A34, A33; the $(\pi, \pi n)$ reaction, where $x=p,d,T,^3\text{He},^4\text{He}$). 493372
- pion reactions**
Nuclear structure and the single charge exchange. (A33; 150 to 600 MeV). 472193
- proton reactions**
Axial currents in nuclei: The Gamow-Teller matrix element. (A33). 468373
- proton reactions**
Neutron formation from sup(7)Li, sup(9)Be, sup(10, 11)B, sup(12)C, sup(16)O, sup(19)F, sup(24,25,26)Mg, sup(27)Al, sup(40,44)Ca, Cu, sup(116,124)Sn, sup(181)Ta, Pb nuclei with 1 GeV protons. (A34). 493363
- rotational states**
On the interaction between single particle resonance and states of deformed nuclei. (A33). 486244
- self-shielding**
Role of the $n-p$ interaction in microscopic calculations of collective motion. (A33). [Data] 486260
- self-shielding**
Multigroup resonance self-shielding factors and cross-sections of main reactor elements. (A31, E21). [Data] 493117
- shell models**
Continuum shell-model description of excited states in light deformed nuclei. (A33). [Data] 486195
- vertex functions**
Nuclear vertex functions. (A33; Nuclear vertex constants for the $t \rightarrow d+n$, $\tau \rightarrow d+p$, $d \rightarrow p+n$, $\alpha \rightarrow t+p$, $\alpha \rightarrow \tau+n$, $\alpha \rightarrow d+d$, $^6\text{Li} \rightarrow \alpha+d$ decays). 486203
- LIGHT PIPES:**
Radiation damage in commercial optical fibers. (B25). [Data] 472737
- LIGHT SOURCES:**
calibration standards
Calibration light sources for scintillation techniques. (E41). 477375
pulse techniques
Ultra-short light pulse generation and its applications. (A14). [Data] 489370
- LIGNITE:**
activation analysis
Nuclear assay of coal. Volume 1. Coal composition by prompt neutron activation analysis: basic experiments. Final report. (B11). 460417
chemical composition
Uranium in coal. (B31). 494190
combustion
Inorganic constituents in an experimental fluidized bed coal combustor exhaust stream. (C52). 469976
- LIMBS:**
See also ARMS; FEET; FINGERS; HANDS; LEGS
biological regeneration
The role of irradiated tissue during pattern formation in the regenerating limb. (C14). [Data] 490964
ontogenesis
The effect of cell killing by X-radiation on pattern formation in the chick limb. (C14, C11). 490978
- LIMESTONE:**
adsorption
Controlled sample program publication No. 1: characterization of rock samples. (E52; Interlaboratory methodology comparison for measuring radionuclide distribution in rocks). 461934
Waste isolation safety assessment program. Controlled sample program publication number 2: interlaboratory comparison of batch Kd values. (C52, B31). [Data] 491193
heat transfer
Parametric thermoelastic analyses of high-level waste and spent fuel repositories in granite and other non-salt rock types. (E52). 488381
impregnation
Porous materials consolidation by impregnation of a gamma rays polymerized styrene-polyester resin. (B14, D23; limestone). 481735
preservation
Porous materials consolidation by impregnation of a gamma rays polymerized styrene-polyester resin. (B14, D23; limestone). 481735
x-ray fluorescence analysis
Determination of calcium and iron in limestone by X-ray fluorescence method. (D22). 491432
- LIMITERS:**
coatings
Boron coatings on graphite for fusion reactor applications. (A14, B22). 485793
Material surface modification for first wall protection. (A14). 459884
control
 ^{12}C Movable limiter in a thermonuclear device. (A14). 467697
materials testing
Composite materials for Tokamak wall armor, limiters, and beam dump applications. (A14). 459975
ISX-A graphite limiter experiment. (A14). 489238
Materials experience with tokamak plasmas. (A14). 459880
specifications
First-wall/limiter design for a tokamak experimental power reactor. (A14). 459996
sputtering
Measurements of sputtering yields for low-energy plasma ions. (A14). 475107
- LIMITING FRAGMENTATION:**
flavor model
Probabilistic quark-model approach to proton fragmentation. (A21). 481386
- LINACS:**
See LINEAR ACCELERATORS
- LINE BROADENING:**
See also DOPPLER BROADENING
argon
Shape of argon spectral lines emitted from an electric arc ($P=760$ Torr). Study and application of pressure broadening. (A12). [Data] 488857
- LINE DEFECTS:**
See also DISLOCATIONS
- LINEAR ACCELERATORS:**
See also FRASCATI LINAC; HILACS; LAMPF LINAC; MEA LINAC; ORELA; SACLAY LINAC; STANFORD 20-GEV LINAC; SUPERHILAC; UNILAC
The result of ten years' study using a linac. (E16). 482637
beam bending magnets
A system of dipole magnets for 180° electron scattering. (E41, E16). 477383
beam bunchers
Calculations pertaining to the design of a prebuncher for a 150-MeV electron linear accelerator. II. Radial motion. (E16). 480409

| | |
|--|--------|
| beam bunching | |
| Antiproton momentum compactor-debuncher linac. (E16). | 480467 |
| beam dynamics | |
| Ion linear accelerator with strong high-frequency focusing. Beam dynamics in the section with spatially uniform focusing: Part 1. (E16). | 480469 |
| Linac particle tracing simulations. (E16). | 477023 |
| Radial motion of intense beam in an electron linac transient. (E16). | 491569 |
| Rf quadrupole beam dynamics. (E16). | 480516 |
| Stable particle motion in a linear accelerator with solenoid focusing. (E16). | 477084 |
| beam emittance | |
| Possible lower limit to linac emittance. (E16). | 480515 |
| beam focusing magnets | |
| Stable particle motion in a linear accelerator with solenoid focusing. (E16). | 477084 |
| beam injection | |
| Compact 250-kV injector system for PIGMI. (E16). | 461550 |
| beam optics | |
| Image displacement effect in linear induction accelerators. (E16). | 466550 |
| Radio frequency quadrupole accelerating structure research at Los Alamos. (E16). | 477054 |
| beam transport | |
| Computer simulation of ion orbits in the Argonne superconducting heavy-ion linac (test version). (E16). | 494832 |
| Further theoretical studies of the beam breakup instability. (E16). | 484872 |
| Radio frequency quadrupole accelerating structure research at Los Alamos. (E16). | 477054 |
| breeding | |
| Accelerator breeder concept. (E16). | 461542 |
| bremssstrahlung | |
| Bremssstrahlung produced by the linear accelerator of electrons with the energy 4 MeV. (E16). | 473728 |
| The use of photon activation analysis for the determination of Sm, Eu, Gd and Dy in boron carbide. (B11). | 483955 |
| cavity resonators | |
| Experimental and calculated rf properties of the disk-and-washer structure. (E16). | 480496 |
| charged particles | |
| Charged particle linear accelerator. (E16). | 494871 |
| control systems | |
| Accelerator control using RSX-11M and CAMAC. (E16). | 466544 |
| coolant loops | |
| Cryogenic system for the Karlsruhe superconducting proton-linac. (E16). | 480463 |
| cryogenics | |
| Cryogenic system for the Karlsruhe superconducting proton-linac. (E16). | 480463 |
| electrodes | |
| Experimental and calculated rf properties of the disk-and-washer structure. (E16). | 480496 |
| electron beam injection | |
| Experimental test accelerator (ETA). (E16). | 476998 |
| electron beams | |
| Electron accelerators for purposes of national economy developed at the Institute of Nuclear Physics of the Siberian Department of the Academy of Sciences of the USSR. (E16). | 466520 |
| Electron linac with a two-component beam. (E16). | 491604 |
| m = 1 cyclotron-mode klystron instability. (E16, A14). | 491668 |
| Physics with the high-duty cycle electron accelerator under construction at I.K.O. (E16, A34). | 470421 |
| 35 MeV electron linear accelerator at University of Tokyo. (E16). | 477071 |
| electron guns | |
| Emittance measurements on field emitter diodes. (E16). | 480474 |
| One nanosecond pulsed electron gun systems. (E16). | 480471 |
| electron-ring accelerators | |
| Experimental study of the systems of induction accelerators of enhanced cycle periodicity. The SILUND 2. (E16). | 494783 |
| electrons | |
| Electron accelerators as ionizing radiation sources. (E16). | 480518 |
| A 35 MeV electron linear accelerator project at Nuclear Engineering Research Laboratory, University of Tokyo. (E16). | 477070 |
| fabrication | |
| Mechanical technologies for PIGMI. (E16; Pion Generator for Medical Irradiations). | 476995 |
| high-voltage pulse generators | |
| Design of pulse transformers for PFL charging. (E16, E13). | 494843 |
| iko | |
| Physics with the high-duty cycle electron accelerator under construction at I.K.O. (E16, A34). | 470421 |
| induction | |
| Linear induction accelerators made from pulse-line cavities with external pulse injection. (E16). | 487930 |
| instability | |
| Further theoretical studies of the beam breakup instability. (E16). | 484872 |
| ion beams | |
| Ion linear accelerators. V. 2. (E16). | 480486 |
| japanese organizations | |
| LINAC project at Nuclear Engineering Research Laboratory, University of Tokyo. (E16). | 482632 |
| kilo amp beam currents | |
| Simulations of intense relativistic electron beam generation by foilless diodes. (E16). | 491619 |

| | |
|---|--------|
| lifetime | |
| Operation of repetitively pulsed 300 kV, 20 kA electron beam diode. (E16). | 476975 |
| microwave radiation | |
| Coherent microwave scattering from intense relativistic electron beams: a powerful, tunable source of millimeter and submillimeter radiation. (E13, E16). | 476915 |
| multicharged ions | |
| Multicharged in beams in an alternating phase-focusing linear accelerator. (E16). | 482617 |
| neutron dosimetry | |
| Neutron sources and their characteristics. (E16, D15). [Data] | 487921 |
| Transport of accelerator produced neutrons in a concrete room. (E16). | 470396 |
| neutron leakage | |
| Leakage neutrons produced by 10 MeV medical accelerators. (E16, C55). | 491641 |
| neutron sources | |
| Linac booster program in Japan. (E37). | 485010 |
| nondestructive testing | |
| Linear accelerator-defectoscopes for nondestructive testing of NPP equipment. (E16). | 466533 |
| optimization | |
| Design of a new accelerating structure for high current beams. (E16). | 491642 |
| particle boosters | |
| Ion acceleration by superconducting resonators. (E16). | 473673 |
| performance | |
| Initial performance of the PIGMI prototype. (E16; Pion Generator for Medical Irradiations). | 477069 |
| Intense ion beam acceleration and transport. (A14, E16). | 475046 |
| Low beta accelerating system for heavy ions. (E16). | 476967 |
| performance testing | |
| Experience at Chalk River with a cw electron accelerator. (E16). | 461554 |
| photon beams | |
| Relative measurements of fast neutron contamination in 18-MV photon beams from two linear accelerators and a betatron. (C15, E16). | 479897 |
| pion beams | |
| Mechanical technologies for PIGMI. (E16; Pion Generator for Medical Irradiations). | 476995 |
| power supplies | |
| Inductive storage for high power REB accelerators. (E16). | 477082 |
| pulse shapers | |
| Properties of a linac-storage ring stretcher system. (E16). | 477020 |
| radiation protection | |
| Radiological safety aspects of the operation of electron linear accelerators. (C52). [Data] | 484676 |
| radiotherapy | |
| Parametrisation of linear accelerator electron beam for computerised dosimetry calculations. (C55, E16). | 491250 |
| Systematic patient-dose errors for 4- and 10-MeV microwave linear accelerators associated with rectangular collimator settings. (D15, C15). | 470253 |
| reviews | |
| The Brookhaven 200-MeV proton linear accelerator. (E16). | 482640 |
| rf systems | |
| Low-cost RF system for a 2-megahertz heavy ion linear accelerator. (E16, A14). | 491660 |
| Microprocessor-based control for independently-phased RF linac cavities. (E16). | 487896 |
| shielding | |
| Attenuation of primary and leakage radiation in concrete for X-rays from a 10 MV linear accelerator. (E16, A32). | 487934 |
| space charge | |
| Linac particle tracing simulations. (E16). | 477023 |
| specifications | |
| 12.5 MHz heavy ion linac for ion beam fusion. (A14, E16). | 478131 |
| superconducting cavity resonat | |
| Ion acceleration by superconducting resonators. (E16). | 473673 |
| Superconductor uses in microwave field: cavities, oscillators, guides intended for particle accelerators. (E16). | 473724 |
| targets | |
| Photoneutron target design for fast neutron spectrum measurements. (E16). | 476971 |
| wave propagation | |
| Discontinuity effects on radial cavity transmission lines. (E16). | 491666 |
| windows | |
| A technique for temperature and ultimate load calculations of thin targets in a pulsed electron beam. (E16). | 473701 |
| x radiation | |
| Photon contamination in 8-20-MeV electron beams from a linear accelerator. (D15, E13). | 487796 |
| x-ray dosimetry | |
| X-ray depth-dose characteristics of the Toshiba LMR-16. (D15). | 480299 |

LINEAR COMB OF ATOMIC ORBITALS:

See LCAO METHOD

LINEAR ENERGY TRANSFER:

See LET

LINEAR MOMENTUM OPERATORS:

hamiltonians

Lie algebra and the quantisation of momenta and the Hamiltonian. (A11).

lie groups

Lie algebra and the quantisation of momenta and the Hamiltonian. (A11).

LINEAR PINCH DEVICES:

See also *LINEAR SCREW PINCH DEVICES*; *LINEAR THETA PINCH DEVICES*; *LINEAR Z PINCH DEVICES*; *SCYLLA DEVICES*

LINEAR PROGRAMMING:

(Optimization of operations or procedures in terms of maximized, or minimized, functions of many variables subject to constraints.)

radiotherapy

Possibilities of employment of ES computer linear programming in dosimetric planning of irradiation. (C55, F51). 494476

LINEAR RATEMETERS:**specifications**

Linear ratemeter with a statistical deviation constant over a range of more than 6 decades. (E41). 477391

LINEAR SCREW PINCH DEVICES:**boltzmann-vaslov equation**

Formulation of the linearized Vlasov-fluid model for a sharp-boundary screw pinch. (A14). 464396

equilibrium

Rigid-drift magnetohydrodynamic equilibria for cylindrical screw pinches. (A14). 464501

LINEAR THETA PINCH DEVICES:

See also *SCYLLA DEVICES*

capacitors

Performance of ALVAND 1. capacitor bank. (A14). 462402

circuit breakers

Numerical analysis of the linear theta-pinch on fast current rise in the solenoid by means of electroexplosive foil breakers. (A14). 483314

confinement

Study of flow and loss processes at the ends of a linear theta pinch. Progress report, June 1, 1978 - May 31, 1979. (A14). 464520

electron drift

Method of measuring directed electron velocities in flowing plasma using the incoherent regions of laser scattering. (A14). 471661

energy losses

Method of measuring directed electron velocities in flowing plasma using the incoherent regions of laser scattering. (A14). 471661

hot plasma

End plugging of a hot linear theta pinch. (A14). [Data] 464250

laser-radiation heating

Recent developments in linear theta-pinch and laser-heated solenoid research. (A14). [Data] 464410

losses

Recent developments in linear theta-pinch and laser-heated solenoid research. (A14). [Data] 464410

plasma heating

Waves and flows in linear theta-pinch. (A14). 462326

plasma instability

On the possibility of obtaining a stable, dynamically equilibrated plasma column in the curved sections of a racetrack theta pinch. (A14). 481200

reverse-field pinch

Regularities of plasma heating and confinement in a compact toroidal configuration. (A14). 485707

shock heating

Study of linear theta pinch with strong and fast-rising magnetic field. (A14). 464275

stability

End plugging of a hot linear theta pinch. (A14). [Data] 464250

Recent developments in linear theta-pinch and laser-heated solenoid research. (A14). [Data] 464410

LINEAR Z PINCH DEVICES:**cold plasma**

The evolution of a low temperature linear discharge plasma. (A14). [Data] 474953

electric currents

Observation of the reversed current effect. (A14). 489212

gas blankets

Effect of the gas blanket on the stability of the dense z-pinch. (A14). 485819

helical instability

Dynamic evolution of a Z pinch. (A14). 485784

high-voltage pulse generators

Z-pinch of intense energy density driven by high-voltage storage lines. (A14). [Data] 464283

magnetic compression

Plasma crowbars in cylindrical flux compression experiments. (A14). 492836

plasma macroinstabilities

On a new type of hydrodynamic instability in a linear Z-pinch. (A14). 460006

power supplies

Flux compression generators as plasma compression power sources. (A14). 485711

High-density Z-pinch pulse-power supply system. (A14). 485787

stability

Effect of the gas blanket on the stability of the dense z-pinch. (A14). 485819

x-ray spectra

X-ray spectra from a gas-puff z-pinch device. (A14). 489121

LINERS:**baking**

Method for baking a liner in thermonuclear device. (A14). 489380

compressibility

Effects of finite liner compressibility in rotationally stabilized liquid-liner fusion systems. (A14). [Data] 474963

deformation

Elementary catastrophe theory modelling of an end-loading ring in a rigid cavity. (E22). 491725

Reactor container. (E22). 473780

implosions

Experimental and theoretical liner fusion studies. (A14). [Data] 467511

Results from the Los Alamos Fast Liner Experiment. (A14). 485805

Stabilized imploding liner research for high magnetic field plasma compression. (A14). 483407

The use of relativistic electron beams to create magnetically confined plasmas inside imploding liners. (A14). 483399

instability

Elementary catastrophe theory modelling of an end-loading ring in a rigid cavity. (E22). 491725

materials working

Support for the sealing cover of the depressurization container of an atomic reactor. (E22). 480579

performance testing

Experimental evaluation of cell liners. (E35; LMFBR). 480714

shape

Thermonuclear device. (A14). 489283

specifications

Metallic sealing liners of the containment shells for PWR 900 reactor buildings. (E32). 473880

thickness

Neutron source for a nuclear reactor. (E24). 470599

tokamak devices

Thermonuclear device. (A14). 489358

LININGS:

See *LINERS*

LINSEED PLANTS:

See *FLAX PLANTS*

LIOUVILLE EQUATION:

See *BOLTZMANN-VLASOV EQUATION*

LIOUVILLE THEOREM:

Are we beating Liouville's theorem. (E16). 480500

variational methods

Variational method and the stochastic-Liouville equation. II. ESR spectral simulation via finite elements. (A11). 488728

LIPASES:**radioimmunoassay**

Direct solid phase radioimmunoassay for chicken lipoprotein lipase. (C62; ¹²⁵I tracer technique). 476787

LIPIDS:

See also *GLYCOLIPIDS*; *LANOLIN*; *LECITHINS*; *LIPOPOLYSACCHARIDES*; *LIPOPROTEINS*; *MYELIN*; *PHOSPHOLIPIDS*

biological radiation effects

Photobiological action of 8 methoxypsoralen to the respiratory response and lipid peroxide formation of mitochondria. (C11). 472913

bromination

The application of radioactive bromine isotopes for the visualisation of latent fingerprints. (B11, B13). 472346

digestive system diseases

Xenon-133 retention in hepatic steatosis - correlation with liver biopsy in 45 patients: concise communication. (C62, C21, C31). 487672

metabolism

Comparative in vitro metabolism of 1-¹⁴C-oleic acid and 1-¹⁴C-erucic acid in liver, heart and skeletal muscles of rats. (C31). 461123

radiolysis

The effect of ionizing radiation on the fatty acid composition of natural fats and on lipid peroxide formation. (C11). [Data] 476506

LIPOPOLYSACCHARIDES:**radioassay**

Quantitative Limulus lysate assay for endotoxin activity: aggregation of radioiodinated coagulogen monomers. (C62; ¹²⁵I tracer technique). [Data] 487719

LIPOPROTEINS:

See also *MYELIN*

labelling

Labeling of high density lipoproteins with [³H] acetic anhydride. (C62; Rats). 470132

LIPOTROPIC FACTORS:

See also *METHIONINE*

peptide hormones

Development of radioimmunoassays for lipotrophins in the rat. (C45). 473178

LIPPMANN-SCHWINGER EQUATION:**matrix elements**

Method for scattering equations. (A21). 486005

LIPS:

See *ORAL CAVITY*

LIQUEFIED NATURAL GAS:

See *NATURAL GAS*

LIQUID COLUMN CHROMATOGRAPHY:**electron capture**

Application of the electron-capture detector in liquid chromatography. (B11). 468599

LIQUID CRYSTALS:**binary mixtures**

The influence of external fields on cholesteric liquid crystal mixtures with positive dielectric anisotropy. (A13). 485584

electron-positron collisions

Positron annihilation studies in N-(p-hexyloxybenzylidene)-p'-toluidene (HBT). (A13). 488953

free energy

The influence of external fields on cholesteric liquid crystal mixtures with positive dielectric anisotropy. (A13). 485584

neutron diffraction

Neutron quasi-elastic scattering for liquid crystals. (A13). [Data] 471479

Neutron studies of liquid crystals. (A13). 467456

- nuclear quadrupole resonance**
¹⁴N nuclear quadrupole resonance in several liquid crystals in their solid state. (A13). 489058
- orientation**
Molecular orientational order in the mesophases of TBBA: results of a consistent analysis of neutron, nuclear quadrupole resonance NQR and NMR data. (A13). 492606
- phase studies**
A possible new phase in cholesteric liquid crystals. (A13). 464170
- phase transformations**
Critical neutron scattering at the nematic-smectic A phase transition in CBOOA. (A13). 467385
The Lifshitz point induced by electric field in smectics. (A13). 471543
Positron annihilation studies in N-(p-hexyloxybenzylidene)-p'-toluidene (HBT). (A13). 488953
- ultrasonic waves**
Anisotropic ultrasound propagation in a smectic-A liquid crystal. (B24). 476374
Ultrasonic study of a smectic-B liquid crystal. (B24). 476373
- LIQUID DROP MODEL:**
heavy ion reactions
From heavy-ion elastic scattering to fission: A unified potential for the description of large-scale nuclear collective motion. (A33). 465017
[Data]
high spin states
Nuclear structure from continuum γ -rays. (A33). [Data] 478616
viscosity
Possible viscosity effects in neutron-induced fission of ²³²Th and ²³⁸U. (A34; Yields). [Data] 490166
- LIQUID EFFLUENTS:**
See LIQUID WASTES
- LIQUID FLOW:**
correlations
Subchannel friction factors for rod bundles: laminar flow predictions and their application to turbulent flows. (E35, E11). 482803
[Data]
finite difference method
Transient flow and heat transfer of liquid sodium coolant in the outlet plenum of a fast nuclear reactor. (E35). 463679
measuring instruments
Laser velocimeter application to oscillatory liquid flows. (E11). 473614
vortices
Automodel rotation of an ideal gas. (A14). 492729
- LIQUID FUELS:**
See also MOLTEN SALT FUELS
- LIQUID HOLDING RECOVERY:**
See BIOLOGICAL RECOVERY
- LIQUID HOMOGENEOUS REACTORS:**
See also PRNC-L-77 REACTOR
- LIQUID IONIZATION CHAMBERS:**
Liquid ionization detectors. (E41). 485038
Liquid ionizing radiation detector. (E41; Patent). 474054
electron drift
Further observation of ionization electrons drifting in liquid argon. (E41, A32). 466769
electronic circuits
Optimum filters with time width constraints for liquid argon total-absorption detectors. (E41). 466783
impurities
An impurity monitor for liquid ionization chamber media. (E41). 470882
- LIQUID METAL COOLANT:**
See LIQUID METALS
- LIQUID METAL COOLED REACTORS:**
See also BN-350 REACTOR; BOR-60 REACTOR; CLINCH RIVER BREEDER REACTOR; DFR REACTOR; EBR-2 REACTOR; FFTF REACTOR; JOYO REACTOR; KNK-2 REACTOR; LMFBR TYPE REACTORS; MONJU REACTOR; PFR REACTOR; PHENIX REACTOR; PLBR REACTOR; RAPSDIE REACTOR; SNR REACTOR; SNR-2 REACTOR; SODIUM COOLED REACTORS; SRE REACTOR; SUPER PHENIX REACTOR
control elements
System for guiding the control rod. (E24). 484932
lead
Cooling process for fuel rods of fuel elements for nuclear power generation. (E35). 470771
reactor cooling systems
Processes and instruments for detecting bubbles in a medium as a liquid metal. (E11). 484821
scram
Scram device for atomic reactors. (E24). 484934
- LIQUID METALS:**
acoustic monitoring
Measurement of sound velocity in liquid metals. (E42). 492201
boiling detection
Processes and instruments for detecting bubbles in a medium as a liquid metal. (E11). 484821
bubbles
The detection of inhomogeneities in liquid metals by inductive flow measurement. (E21). 487964
convection
Cooling of heated plate by impinging bubble jet. (A14). [Data] 481215
Effects of a magnetic field strength on natural convection and pool boiling of liquid metals, (4). (A14). [Data] 481226
corrosion
Corrosion by liquid metals - Application to liquid sodium. (B15). 493835
[Data]
Corrosion in alkali metal circuits. Pt. 2. (E17, B15). 466562
- critical heat flux**
Analytical and experimental studies of bubble growth in superheated liquid metals under a uniform magnetic field. (A13, A14, E11). 477955
- electronic structure**
The electronic structure and stability of liquid metal alloys. (B22). 493987
- flow rate**
Process and device for measuring speed of flow and gas volume of a liquid metal flow. (E11, E42). 470302
- forced convection**
Boiling heat transfer under forced convection of sodium. (E35). 463685
- heat transfer**
Effect of liquid inertia on bubble growth in the presence of a magnetic field. (A13, E11, A14). 477952
Heat transfer on a cylindrical surface across uniform flow of liquid sodium. (E35). [Data] 482805
- level indicators**
Inductive measuring device for the height of the liquid metal level. (E42, E35). 466852
- liquid flow**
Flow of liquid metals in annular channels under a transversely applied magnetic field. (E11). 476901
Flow of liquid metals in curved channels under a transversely applied magnetic field. (E11). 482537
- magnetohydrodynamics**
Thermoelectric magnetohydrodynamics in closed containers. (A14). 464466
- mathematical models**
Exact hard-disk free volumes. (A11). 467069
- natural convection**
Natural convection of liquid metal in the presence of magnetic field. (A14). [Data] 481189
Study of transient and permanent flow in the event of natural convection in a confined environment. (E35). 473992
- nucleate boiling**
Analytical and experimental studies of bubble growth in superheated liquid metals under a uniform magnetic field. (A13, A14, E11). 477955
Effect of liquid inertia on bubble growth in the presence of a magnetic field. (A13, E11, A14). 477952
- self-diffusion**
Diffusion and viscosity of liquid metals on the base of volume quantization. (B22; In, Ni, Cd, Li, Ga, Rb, Ge, Fe, Co). 465592
- thermodynamic properties**
Exact hard-disk free volumes. (A11). 467069
The thermal pressure coefficients and heat capacities of simple liquid metals. (B22). 479400
- two-phase flow**
Gas-liquid slip ratio and MHD pressure drop in two-phase liquid metal flow in strong magnetic field. (A16). 467972
Redistribution of gaseous phase of liquid metal two-phase flow in a strong magnetic field. (A14). [Data] 481223
- viscosity**
Diffusion and viscosity of liquid metals on the base of volume quantization. (B22; In, Ni, Cd, Li, Ga, Rb, Ge, Fe, Co). 465592
- LIQUID PROPORTIONAL COUNTERS:**
A liquid xenon proportional scintillation counter. (E41). 474098
- LIQUID SCINTILLATION DETECTORS:**
absorption spectroscopy
The use of a liquid scintillation counter in colorimetric analysis. (B11, E41). [Data] 472374
chemiluminescence
Some recent trends in liquid scintillation counting techniques. (E41). 482850
coincidence methods
Liquid-scintillation measuring device with coincidence circuit and circuits for pulse height selection. (E41). 474092
comparative evaluations
Uranium-233 analysis of biological samples. (B11). [Data] 472344
containers
Tests of liquid scintillation counters made with extruded acrylic panels. (E41). 485081
efficiency
Efficiencies and light curves for neutron spectrum measurements using NE-213. (E41). 461820
fission fragment detection
A low background spontaneous fission detection system. (E41). 470834
performance
The effect of volume and quenching on estimation of counting efficiencies in liquid scintillation counting. (E41). [Data] 470898
performance testing
⁶Li-loaded liquid scintillators with pulse shape discrimination. (E41). 466789
Improved ¹⁰B-loaded liquid scintillator with pulse-shape discrimination. (E41). 466788
polyacrylates
Tests of liquid scintillation counters made with extruded acrylic panels. (E41). 485081
pulse discriminators
Discrimination of signal shape from a large-volume liquid scintillator. (E41). 495121
quenching
Process for determining quench corrected counting of liquid scintillation detectors and circuits for carrying this out. (E41). 477318
Process for determining quench corrected counting of liquid

- scintillation detectors and circuits for carrying this out. (E41). 470821
- sample holders**
- Dimensions of vials for liquid scintillation counting. (E41). 477340
- scintillation quenching**
- Determination of quenching in the liquid scintillation counters. (E41). 474088
- The effect of volume and quenching on estimation of counting efficiencies in liquid scintillation counting. (E41). [Data] 470898
- telescope counters**
- The MISO low energy γ -ray telescope. (E41, A15). 474030
- tritium**
- A low-background liquid scintillation counter for measuring low-level tritium. (E41). [Data] 492111
- xenon**
- A liquid xenon proportional scintillation counter. (E41). 474098
- LIQUID SCINTILLATORS:**
- decontamination**
- Decontamination and recovery of 1,4 dioxane-based liquid scintillator. (B12, E41). [Data] 462740
- efficiency**
- Factors altering optimum liquid scintillation counting of ^3H or ^{14}C amino acids. (B13). 490440
- mixing**
- A mixing device designed to aid the dispersion of aqueous radioactive samples in scintillation cocktails prior to counting. (E41). 474108
- performance**
- Development of long-wavelength-emitting scintillators with improved decay time characteristics. (E41). 470868
- sample preparation**
- A mixing device designed to aid the dispersion of aqueous radioactive samples in scintillation cocktails prior to counting. (E41). 474108
- A mixing device designed to aid the dispersion of aqueous radioactive samples in scintillation cocktails prior to counting. (E41). 463732
- LIQUID SODIUM-WATER REACTIONS:**
- See **MOLTEN METAL-WATER REACTIONS**
- LIQUID WASTES:**
- cadmium compounds**
- Elimination of cadmium ion in waste water by adsorbents. (B12). 475988
- chemical radiation effects**
- Radiation methods for liquid and aqueous wastes purification. (B14). 479253
- decantation**
- Application of radionuclides in water management. I. (D24). 476878
- decontamination**
- Experience with liquid radioactive waste treatment. (E51). 485164
- Improvement of chemical and physical processes to treat the water from nuclear power plants. (E32, C54). 488075
- Method to decontaminate radioactive processing water. (B16, E51). 472595
- Methods for decontamination of radioactive wastes. (C52). 494432
- Technique of measuring deactivation efficiency of water treatment equipment in nuclear power facilities by gamma spectrometric analysis. (E41). 485031
- ecological concentration**
- Environmental monitoring report, 1978: Pinellas Plant. (B33, C52, C21). 487143
- environment**
- Burial ground technology. (B31, B32). [Data] 479618
- evaporation**
- Method and equipment for evaporation below boiling point and final storage of liquid radioactive wastes. (E52). 485171
- gamma detection**
- Designing instruments for measuring activity of liquids. (E41). 485069
- laboratory equipment**
- Facility for liquid wastes and aqueous radioactive wastes of an α , β , γ -laboratory. (E52). 471082
- level indicators**
- Calibrator for level indicator of liquid waste in a storage tank. (E22). 473781
- radiation detectors**
- Method of locating radiation detectors. (E41). 492157
- radiation effects**
- Ionizing radiation effect on physicochemical properties of liquid waste precipitates. (B14). 479307
- radiation monitoring**
- Monitoring equipment for liquid effluents. (C55, E41). 469999
- radioactive waste processing**
- Deactivation of waste waters in the Czechoslovak Uranium Industry. (E51). 485163
- Disposal of liquid radioactive wastes from nuclear power plants. (E51). 485168
- Method for processing high level radioactive liquid wastes containing sodium nitrate. (E51). 474219
- Possible treatment of radioactive waters from the uranium mine Hamr u Ceske Lipy. (E51). 485169
- Radioactive liquid wastes processing system. (E51). 482896
- Radioactive waste processing device. (E51). 474212
- Treatment of radioactive contaminated water in nuclear power plants. (E31, E32, E33). 473860
- reprocessing**
- Use of radioisotopes for the solution of hydrometallurgical problems in aluminium and copper extraction. (D24). 476885
- sampling**
- Process for taking samples, in particular from hot concentrates flowing in pipes, which contain radioactive or corrosive substances. (E30, B16, E51). 484940
- solidification**
- Method for fixing organic radioactive solvent wastes. (E51). 482899
- Method for solidifying and disposing radioactive liquid waste. (E51). 471053
- Method of processing radioactive liquid wastes. (E51). 482912
- Method of solidifying radioactive wastes. (E51). 482903
- sterilization**
- Perspectives and problems of application of the effects of ionizing radiation in water treatment technology in Czechoslovakia. (D23, C41, C12). 484809
- toxicity**
- Toxicity of waste water from uranium ore mining and processing. (C21). 484561
- tritium**
- Method for measuring tritium activity from radioactive solution. (B13, E51). 486689
- waste processing**
- On the possibilities of purifying waste water containing dodecylbenzenesulfonate and nonylphenylpolyglycolic ether by irradiation. (B14, D23). 476175
- Radiation purification of sewage from phenols. (D23, B14). 491437
- LIQUID-LIQUID EXTRACTION:**
- See **SOLVENT EXTRACTION**
- LIQUID-METAL MHD GENERATORS:**
- Magnetohydrodynamic power generation. (A16). 462492
- two-phase flow**
- Effect of liquid inertia on bubble growth in the presence of a magnetic field. (A13, E11, A14). 477952
- LIQUID-PHASE SINTERING:**
- See **SINTERING**
- LIQUIDS:**
- See also **LIQUID CRYSTALS; LIQUID METALS**
- charged-particle transport**
- Acoustic radiation by charged atomic particles in liquids: An analysis. (A32, E41). 490029
- Symmetry properties of the transport coefficients of charged particles in disordered materials. (A13). 492569
- distribution functions**
- Application of the RISM theory to Lennard-Jones interaction site molecular fluids. (A10). 466995
- electron mobility**
- Response to "Parity and differentiability restrictions on the electric field dependence of the mobility of charged particles in gases and liquids". (B14). 468942
- freezing**
- Cold-stage microscopy system for fast-frozen liquids. (B24). 487008
- Fluctuations and freezing in a one-dimensional liquid: Hg/sub 3-delta/AsF₆. (A17, A13). 485971
- hydrodynamics**
- An example of processes in physics that are nonlocal in time. (A11). 492415
- intermolecular forces**
- Application of the RISM theory to Lennard-Jones interaction site molecular fluids. (A10). 466995
- mathematical models**
- Exact hard-disk free volumes. (A11). 467069
- moessbauer effect**
- *Critical scattering of Moessbauer radiation in condensed media. (A13). 462260
- molecular structure**
- NMR studies of liquids and disordered solids at high pressure. (B12; Pulsed and high-pressure techniques). 486599
- neutron diffraction**
- Slow neutron scattering by molecules. (A31). [Data] 460259
- phase transformations**
- Fluctuations and freezing in a one-dimensional liquid: Hg/sub 3-delta/AsF₆. (A17, A13). 485971
- pressure dependence**
- Proceedings of the colloquium: The response of liquids to dynamic tension. (E11). 491467
- radiation heating**
- Acoustic radiation by charged atomic particles in liquids: An analysis. (A32, E41). 490029
- radiolysis**
- Initial stage of radiolysis and positron annihilation in liquid media. (B14). 479138
- stopping power**
- Range-energy relations and stopping power of water, water vapour and tissue equivalent liquid for α particles over the energy range 0.5 to 8 MeV. (C11, C55). 460986
- The stopping power and straggling for alpha particles in liquids. (C11, C55). 460972
- thermodynamic properties**
- Exact hard-disk free volumes. (A11). 467069
- LITHIUM:**
- absorption spectra**
- Motional Stark effect on Li vapor photoabsorption in high magnetic fields. (A12). 477724
- absorption spectroscopy**
- Atomic absorption spectrometry with an electrothermal graphite braid atomizer. (B11). 472370
- Isotope effects in the determination of lithium by flameless atomic absorption spectroscopy. (B11, B12). 481649
- Lithium or cesium assay in saturated salt solutions obtained in leaching experiments on bitumen/salt mixtures. (B11). 468643

- activation analysis**
Where do nuclear tracks lead. (B11, B14; Investigative tools). 486504
- adsorption**
Adsorption of lithium on the (112) face of molybdenum crystal. (A13). 492632
- aerosols**
Lithium vapor/aerosol studies. Interim summary report. (A14). 485833
- atom-atom collisions**
Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092
- atom-molecule collisions**
Collisional ionization of electronically excited lithium. (A12). 477782
Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092
- Auger effect**
Energy-band theory of Auger line shapes: Silicon L/sub 2,3/VV and lithium KVV. (B22, A12, B24). 469195
- Brazil**
The lithium program in the northeast (of Brazil). (B31; Survey of lithium ores in the Brazilian northeast region). 481919
- charge exchange**
Charge exchange reactions in collisions between Li⁺ and Li. (A12). 474600
- chemical analysis**
Quantitative determination of tritium in metals and oxides. (B11). 486554
- chemical radiation effects**
Laser-collision induced chemical reactions: Collinear exchange reaction model on two electronic surfaces. (B11, B12). 478838
- chemical reactions**
Cyclopeptide alkaloids. Synthesis of the ring system and its ion affinity. (B12). 460487
- compatibility**
Compatibility considerations for the use of solid breeders. (A14, B22). 485680
Compatibility of molten salts with Type 316 stainless steel and lithium. (A14, B15). 492780
- corrosion**
Effects of nitrogen and nitrogen getters in lithium on the corrosion of type 316 stainless steel. (B15, A14). 472566
Experiments on 18-8 stainless steels exposed to liquid lithium. I. 1,100-hour corrosion tests in lithium of 400, 500 and 600°C in natural circulation type testing apparatus. (B15, A14). 460624
Thermal-gradient mass transfer in lithium-stainless steel systems. (B15, A14). 476197
- deuteron reactions**
Intense sources of fast neutrons. (E16). 470370
- ecological concentration**
Development of a dual-tracer real-time particle dry-deposition measurement technique for simple and complex terrain. (C52, E42). 480145
- electric conductivity**
Pseudopotential of the Waeber and Stool type; application to the electric conductivity calculation of liquid alkaline metals. (A13). [Data] 481150
- electron collisions**
Impurity scattering on the Fermi surfaces: A (more) realistic calculation. (A13, B22). 485583
- electron-atom collisions**
Electron-rubidium differential elastic spin exchange and electron-lithium total cross section measurements. (A12; Differential cross sections, 0.8 to 1.4 eV). 459765
An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
Momentum-transfer cross sections for electron collisions with atoms and molecules. (A12). 467223
Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact. (A12; Lifetime, cross sections, ionization). [Data] 464092
- electronic structure**
Atomic coreless Hartree-Fock pseudopotential for atoms Li through Ne. (A17). [Data] 464736
Energy-band theory of Auger line shapes: Silicon L/sub 2,3/VV and lithium KVV. (B22, A12, B24). 469195
- emission spectroscopy**
Analysis of natural waters with an automated inductively-coupled plasma spectrometer system. (B11). 465267
- energy levels**
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
Theoretical studies in atomic structure. (A12; Nuclear charge expansion perturbation method, Hartree-Fock functions, resonances, doubly excited states). 467297
- energy-level transitions**
Pade approximant formulas for atomic oscillator strengths. (A12). 463967
- equations of state**
Tabular equation of state of lithium for laser-fusion reactor studies. (A14, B22). 462408
- fire hazards**
Thermal response of fusion reactor containment to lithium fire. (A14). 474997
- fluorescence**
Quenching cross sections for alkali-inert gas collisions. (A12). [Data] 485528
- form factors**
Pseudopotential of the Waeber and Stool type; application to the electric conductivity calculation of liquid alkaline metals. (A13). [Data] 481150
- ion-atom collisions**
Charge exchange reactions in collisions between Li⁺ and Li. (A12). 474600
Charge-exchange reactions in collisions of Li⁺-Li. (A12). 488846
- ionic conductivity**
Properties of single crystal beta"-aluminas. (B23). 486948
- iron 56 reactions**
Fragmentation of relativistic ⁵⁶Fe. (A34). 478784
- isotope effects**
Isotope effects in the determination of lithium by flameless atomic absorption spectroscopy. (B11, B12). 481649
- lifetime**
Lifetime measurements of lithium d-states. (A12). [Data] 483175
- liquid flow**
Stability of the flow of thin liquid-lithium films. (A14). 489193
- lithium oxides**
A determination of the solubility of lithium oxide in liquid lithium by fast neutron activation. (B11). 468683
- mesic atoms**
Calculation of He and Li neutral mesic atoms. (A12; μ^- , π^- , K^- , p^-). 463947
- metallurgy**
Ionic conductivity and Raman spectra of Na-Li, K-Li, and K-Sn β -Al₂O₃. (B22, B23). 490596
- molybdenum**
Adsorption of lithium on the (112) face of molybdenum crystal. (A13). 492632
- neutron activation analysis**
A determination of the solubility of lithium oxide in liquid lithium by fast neutron activation. (B11). 468683
- neutron reactions**
Neutronic performance of candidate tritium breeding materials. (A14). 485748
- organs**
Lithium content in organs and tissues of X-irradiated rabbits. (C14). 484514
- oscillator strengths**
Atomic energy levels and oscillator strengths calculated with a screened potential. (A12). [Data] 477843
Pade approximant formulas for atomic oscillator strengths. (A12). 463967
- permeability**
Estimate of the diffusion coefficient of lead in molten lithium. (B22, A14). 481818
- photolysis**
Theoretical studies of highly ionized species. Progress report, March 1, 1978 - February 28, 1979. (A12; Summaries of research activities at Harvard College Observatory). 459722
- photonic nuclear reactions**
Photopion production in the Fermi-gas model. (A33). [Data] 465024
- pion minus reactions**
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- pion plus reactions**
True absorption and scattering of 125-MeV pions on nuclei. (A34). 490210
- positron-atom collisions**
An integral approach to the second-order potential method: electron and positron scattering by hydrogen, helium and lithium. (A12). 483201
- prospecting**
The lithium program in the northeast (of Brazil). (B31; Survey of lithium ores in the Brazilian northeast region). 481919
- proton reactions**
Intense sources of fast neutrons. (E16). 470370
- quantitative chemical analysis**
Determination of lithium traces in microliters of water, wine and high purity solvents by stable isotope dilution and field desorption mass spectrometry. (B11). 478860
- reprocessing**
Fusion reactor research. (A14). 467494
- spin-lattice relaxation**
NMR studies of the diffusion of Li in glasses. (A13). 464158
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- tissues**
Lithium content in organs and tissues of X-irradiated rabbits. (C14). 484514
- trace amounts**
Impurity scattering on the Fermi surfaces: A (more) realistic calculation. (A13, B22). 485583
- tritium recovery**
Recovery of tritium from yttrium getters. (A14). 489356
- volatility**
Volatilization from borosilicate glass melts of simulated Savannah River Plant waste. (E51). 471063
- LITHIUM ALLOYS:**
See also LITHIUM BASE ALLOYS
- compatibility**
Compatibility considerations for the use of solid breeders. (A14, B22). 485680
- crystal-phase transformations**
The intermetallic system LiCdsub(1-x)Tlsub(x). (A13). [Data] 464122

- heat treatments**
Characterization of heat treatment induced changes in Li-Na beta-alumina single crystals. (B22, B21). 490577
- intermetallic compounds**
Preparative and structural investigations in the systems Na-Sn and Li-Na-Sn. (B12). 486678
- ionic conductivity**
Ionic conductivity and Raman spectra of Na-Li, K-Li, and K-Sn β -Al₂O₃. (B22, B23). 490596
- knight shift**
The knight shift in liquid LiCd and LiIn alloys. (A13). 477914
- neutron reactions**
Experiment to measure the tritium and helium release rates from neutron irradiated Li₂Pb₂. (A14). 485730
Neutronic performance of candidate tritium breeding materials. (A14). 485748
- phase studies**
Characterization of heat treatment induced changes in Li-Na beta-alumina single crystals. (B22, B21). 490577
- raman spectra**
Ionic conductivity and Raman spectra of Na-Li, K-Li, and K-Sn β -Al₂O₃. (B22, B23). 490596
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- tritium**
Recovery of tritium from lithium-sintered aluminium product (SAP) and lithium-aluminium alloys. (D13, B13). [Data] 470237
- tritium recovery**
Results of basic research program on Li₂Pb₂. (A14). 485826
- LITHIUM BASE ALLOYS:**
- solvent extraction**
The extraction and determination of free lithium in Li-B alloys. (B11). 472359
- LITHIUM BROMIDES:**
- corrosion**
Design and operation of thermal-convection loops for corrosion measurements in LiF-LiCl-LiBr. (B15, E33, E35). 479324
- LITHIUM CARBIDES:**
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- LITHIUM CHLORIDES:**
- adsorption**
Properties of adsorbents composed of hydrous aluminum oxide, and its selective adsorption of lithium from sea water. (B13). [Data] 476134
- corrosion**
Design and operation of thermal-convection loops for corrosion measurements in LiF-LiCl-LiBr. (B15, E33, E35). 479324
- doped materials**
Luminescence analysis of LiCl:Ag single crystal using synchrotron radiation. (A13). 459818
- electron spin resonance**
ESR study of neutron-irradiated LiCl crystals. (A13). [Data] 471575
- fluorescence**
Luminescence analysis of LiCl:Ag single crystal using synchrotron radiation. (A13). 459818
- gases**
Gaseous complexes in the system LiCl/ScCl₃. (B12). [Data] 465394
- matrix isolation**
Lithium chloride glass as a neutral matrix for the EPR study of radiation damage to biomolecules. (C11). 490904
- radiolysis**
Radiolysis of concentrated solutions. 1. Pulse and γ radiolysis studies of direct and indirect effects in LiCl solutions. (B14). 460601
- trapping**
Thermal decay of paramagnetic species generated in 15 M LiCl aqueous glass by γ -irradiation at 77 K. (B14). 493820
- LITHIUM COMPLEXES:**
Structural studies on actinides carboxylates. (B13). [Data] 462754
- LITHIUM COMPOUNDS:**
See also LITHIUM BROMIDES; LITHIUM CARBIDES; LITHIUM CHLORIDES; LITHIUM DEUTERIDES; LITHIUM FLUORIDES; LITHIUM HYDRIDES; LITHIUM IODIDES; LITHIUM NITRATES; LITHIUM NITRIDES; LITHIUM OXIDES; LITHIUM SULFATES; LITHIUM TRITIDES; LITHIUM TUNGSTATES
- aqueous solutions**
Investigation of aqueous-salt systems containing lithium, rubidium and cesium formates. (B12; Systems: HCOOLi-HCOOMe⁺·O (Me-Na, K, Rb, Cs)). 479064
- borates**
Laser-induced fluorescence line narrowing of Eu³⁺ in lithium borate glass. (A12). 459736
- catalysis**
Polymerization of N-(fluoro phenyl) maleimides. (B14; γ radiation). [Data] 479131
- chemical preparation**
Efficient synthesis of substituted uranocenes. (B13). 486712
- chemical reactions**
Efficient synthesis of substituted uranocenes. (B13). 486712
- crystal growth**
Peculiarities of barium-lithium niobate (Ba₂LiNb₂O₇) crystallization during crystal growth by the Czochralski method. (B12). 493737
- electric conductivity**
Effect of impurities on optical quality and electroconductivity in LiNbO₃. (B12). 465287
- niobates**
Acoustic model for ion-implanted lithium surfaces used to propagate elastic waves. (A13). 471442
- nuclear magnetic resonance**
Dynamic nuclear polarization of the ⁷Li⁺ ion in free radical solutions. (B14, A12). 486750
- nuclear reaction analysis**
Contactless determination of the concentration of dissolved substances in liquids means of (n, α)- and (n, γ)-reactions. (A13). 481096
- optical properties**
Effect of impurities on optical quality and electroconductivity in LiNbO₃. (B12). 465287
Transmission spectrum of lithium tantalate. (B23). 460773
- phase diagrams**
Investigation of phase equilibria in systems from niobates of cesium gallium, lithium and gallium. (B12). 479041
- raman effect**
Photographic registration of low-frequency combination light scattering spectra on LiNbO₃ and LiTaO₃ polaritons. (A13). 474869
- solubility**
Solubility and liquid phase properties of Me₂BLA₂O₃-MeNO₃(Me-Li, Na)-H₂O system at 25 deg C. (B12, B15). [Data] 493711
- sound waves**
Electroacoustic coefficients of lithium niobates and tantalates crystals. (A13). 464118
- LITHIUM DEUTERIDES:**
- electric conductivity**
Effect of isotopic composition of hydrogen on electric conductivity of solid lithium hydride. (B12). 475920
- hyperfine structure**
EPR studies of paramagnetic rhodium centers in LiH and LiD. (B23). [Data] 465681
- knudsen flow**
Experimental study of gaseous lithium deuterides and lithium oxides. (B12, B24). 468754
- neutron reactions**
Tritium production in a sphere of ⁶LiD irradiated by 14-MeV neutrons. (A33, A31, B25). 468328
- neutron transport**
Tritium production in a sphere of ⁶LiD irradiated by 14-MeV neutrons. (A33, A31, B25). 468328
- raman spectra**
Second-order Raman spectra of LiH. (A13). 474824
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- vapors**
Experimental study of gaseous lithium deuterides and lithium oxides. (B12, B24). 468754
- LITHIUM FLUORIDES:**
- antiferromagnetism**
Preliminary observation of a nuclear antiferromagnetic structure by neutron diffraction. (A13). 464114
- atom collisions**
High-energy approximation for atom-surface elastic scattering. (A12). 474611
- atom-molecule collisions**
Polarized, rotationally state-selected cross sections and anisotropic intermolecular potentials for LiF on Ar. (A12). 485540
- chemical preparation**
Method for the production of lithium fluoride detectors. (B12, E41). 472453
- chemical radiation effects**
Effect of reactor radiation on lithium fluoride solubility. (B14). 479298
- chemiluminescence**
Chemiluminescence during the dissolution of γ -irradiated lithium fluoride. (A13). 474699
- corrosion**
Design and operation of thermal-convection loops for corrosion measurements in LiF-LiCl-LiBr. (B15, E33, E35). 479324
- dichroism**
Optically induced dichroism of Z₂-centers in LiF : Mg, Ti (TLD-100). (A13). 462200
- doped materials**
Preparation and dosimetric properties of a highly sensitive LiF thermoluminescent dosimeter. (E41). [Data] 463730
- electron-molecule collisions**
Electron-polar-molecule scattering: quasiclassical close-coupling approximation. (A12). 488754
- f centers**
Study on valence band hole transfer in LiF under nanosecond irradiation with dense electron beams. (A13). 485561
- gamma dosimetry**
Determination of low doses with LiF. (C55, E41). 494483
- inelastic scattering**
The optical potential in the scattering of hydrogen and deuterium atoms from LiF and NaF (001). (A13). 459791
- molecule collisions**
Quadrupole interaction in the scattering of H₂ from the surface of LiF: Rotational transitions. (A12). 485460
- phase diagrams**
Fusibility diagrams of LiF-BeF₂ and KF-UF₄ systems. (B16). 493850
- physical radiation effects**
Study on valence band hole transfer in LiF under nanosecond irradiation with dense electron beams. (A13). 485561

- radiation effects**
Paramagnetic centers in neutron-irradiated LiF crystals, 4. (A13). 464177
- radioluminescence**
Luminescence during release of pressure in X-ray irradiated alkali halide crystals. (A13). 474729
- radiolysis**
Chemical aspects of recoil tritium atoms interaction with adsorbed substance and solid. (A13, B13, B14). 492699
Radiolysis of the LiF-BF₃ system by prompt electrons. (B14). 479139
- rare earth additions**
Spin-lattice relaxation and polarization of nuclei in impure monocystals RE³⁺-YLiF₄. (A13). 474689
- refraction**
Refractive index of LiF films as a function of time. (B24). 479518
- thermoluminescence**
Effect of deformation on the thermoluminescence of titanium doped lithium fluoride. (A13, E41). 462210
Experimental study of the radiation temperature effect on thermoluminescence accumulation kinetics in minerals. (A13). 492669
An explanation of the anomalously high activation energies of TL in LiF (TLD 100). (B25). 469462
Gamma ray induced sensitization and residual thermoluminescence in common TLD phosphors. (E41). 461840
Mixed field radiation measurements using ⁷LiF TLD. (E41). 495092
Thermoluminescence and lattice defects in LiF. (A13). [Data] 474891
TL light self-absorption: implications for studies on the relative TL efficiency as a function of linear energy transfer. (E41). 492108
- thermoluminescent dosimeters**
The low- and high-temperature response of lithium fluoride dosimeters to X-rays. (E41, B25). [Data] 463707
Thermoluminescent properties of the LiF produced in Brazil. (A13, E41). [Data] 474826
- u centers**
Paramagnetic centers in neutron-irradiated LiF crystals, 4. (A13). 464177
- LITHIUM HYDRIDES:**
See also LITHIUM DEUTERIDES; LITHIUM TRITIDES
- chemical reactions**
Enantiomerically pure (R)-(+)-2-phenylethanol-2-d and -1,1,2-d, and (S)-(-)-1-phenylethanol-1-d, -1,2-d, -1,2,2-d, and -1,2,2,2-d. (B12). 465303
- configuration interaction**
Spin-adapted vector method: An alternative to the conventional configuration interaction approach. (A12, A11). 485405
- electric conductivity**
Effect of isotopic composition of hydrogen on electric conductivity of solid lithium hydride. (B12). 475920
- electronic structure**
Mound Facility activities in chemical and physical research: July-December 1978. (B12, D13). 476032
- hyperfine structure**
EPR studies of paramagnetic rhodium centers in LiH and LiD. (B23). [Data] 465681
- isotopic exchange**
The solubility and isotopic exchange equilibrium for hydrogen isotopes in lithium. (B12). 490408
- neutron reactions**
Tritium production in a sphere of ⁶LiD irradiated by 14-MeV neutrons. (A33, A31, B25). 468328
- point defects**
Extended Hueckel molecular orbital calculation of defects in LiH cluster crystals. (B12). 475966
- quantitative chemical analysis**
Determination of total gas in lithium tritide-deuteride compounds. (B11). 486547
- raman spectra**
Second-order Raman spectra of LiH. (A13). 474824
- solubility**
The solubility and isotopic exchange equilibrium for hydrogen isotopes in lithium. (B12). 490408
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- LITHIUM IODIDES:**
- absorption spectra**
Absorption spectra of reactor irradiated LiI crystals. (A13). [Data] 481099
- iodine 121**
Moessbauer charge density in ¹²⁹I-. (A13). 474889
- irradiation**
Absorption spectra of reactor irradiated LiI crystals. (A13). [Data] 481099
- solid scintillation detectors**
Properties and applications of ⁶Li(Eu). (E41). 477367
- LITHIUM IONS:**
- diffusion**
Cesium and lithium diffusion in sodium and potassium chlorides. (B12). 486645
- electronic structure**
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for 1 < or = Z < or = 4. (A12). 464110
- energy levels**
Simple extended STO basis sets. helium. (A12). 464064
- fine structure**
Comment on "Doppler-tuned hyperfine spectroscopy of the lithium ion". (A12). 488765
- hyperfine structure**
Comment on "Doppler-tuned hyperfine spectroscopy of the lithium ion". (A12). 488765
- ion mobility**
Mobilities and clustering reactions of alkali ions in Ar gas. (A12). 474662
Mobilities of alkali metal ions in gases. (A12). [Data] 488915
Mobilities of alkali ions in gases. (A12). 467321
Studies of ionic mobilities and ion-neutral reactions by means of the injected-ion drift tube technique. (A12). 467228
- ion sources**
Ion sources. (A12). 462154
Proposal for an intense polarized Li-ion source. (A12, A33). 488747
- ion-atom collisions**
Charge-exchange reactions in collisions of Li⁺-Li. (A12). 488846
Charge-transfer cross sections for collisions of Li²⁺, Be⁴⁺, B³⁺, and C⁴⁺ ions with atomic hydrogen. (A12). 477814
Ejected-electron spectroscopy of helium and neon by low-energy lithium-ion impact. (A12). 471400
Inner-shell-electron capture by H⁺, He²⁺, and Li³⁺ projectiles from CH₄, Ne, and Ar. (A12). 485513
Interaction potential for the X¹Σ state of Li⁺ + Ar. (A12). 477802
Many-electron aspects of molecular promotion in ion-atom collisions: Production of core-excited states of Li in Li⁺-He collisions. (A12). 474578
Radiative collisions between lithium ion and inert gas atoms. (A12). [Data] 474670
Selected topics from the theory of electron-atom and atom-atom collisions. (A12). 459756
Time independent quantum theory of electron transfer collisions using a nonorthogonal basis and R-matrix propagation. (A12). 485519
- ion-ion collisions**
Electron capture by protons from some hydrogen-like ions. (A12). [Data] 471371
- ion-molecule collisions**
Rotational-vibrational energy transfer in collisions of Li⁺ with N₂ and CO in the 1-10 eV range. (A12). 477792
Time of flight measurements of the vibrational excitation of CH₄ by collision with 3-6 eV Li⁺ ions. (A12). 467194
- metastable states**
Laser scanning measurement of the density distribution of confined ⁶Li⁺ ions. (E16). 487912
Lifetime of the metastable 2³S₁ state in stored Li⁺ ions. (A12). [Data] 492537
- photoionization**
Two-channel relativistic random-phase approximation applied to the photoionisation of helium- and beryllium-like ions. (A12). 474614
- stopping power**
Electronic stopping cross sections of 50-300-keV He and Li ions. (A32). 478590
- wave functions**
Closed-form expressions for the correlated two-electron-core potentials and elastic form factors for 1 < or = Z < or = 4. (A12). 464110
- LITHIUM ISOTOPES:**
See also LITHIUM 10; LITHIUM 6; LITHIUM 7; LITHIUM 9
- excitation**
Unbound Li nuclei as ejectiles in α-induced pick-up. (A34). 490231
- nucleosynthesis**
Nucleosynthesis of Li, Be, and B: contributions from the p + ¹⁰O reaction at 50-90 MeV. (A34). 475833
- LITHIUM NITRATES:**
- solubility**
Lithium nitrate-cerium nitrate-water ternary system at 25 deg C. (B12). [Data] 493625
- LITHIUM NITRIDES:**
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- LITHIUM OXIDES:**
- breeding pellets**
Reaction of several iron and nickel based alloys with sintered Li₂O pellets. (B12). 468783
- chromium ions**
Comparative study of the Cr³⁺ luminescent properties in LiAlO₃ and LiGaO₃. (A13). 471421
- compatibility**
Compatibility considerations for the use of solid breeders. (A14, B22). 485680
Reaction of several iron and nickel based alloys with sintered Li₂O pellets. (B12). 468783
- crystal growth**
Growth of high phase-match temperature LiNbO₃ single crystals. Annual report for period ending March 15, 1978. (B23). 460778
Growth of Li₂O single crystals by the floating zone method. (B23). 469389
- crystal structure**
Laser-induced fluorescence line narrowing of Eu³⁺ in lithium borate glass. (A12, B24). 467213
- electrolysis**
Cathodic products of electrolysis of melts of the Li₂O-V₂O₅ system. (B12). 493620
- fluorescence**
Comparative study of the Cr³⁺ luminescent properties in LiAlO₃ and LiGaO₃. (A13). 471421
- glass**
Investigation of lithium boron silicate glasses by the method of high temperature IR spectroscopy. (B12). 479047

- ion channeling**
Electromigration in ion bombardment. (B25; Helium* and deuterium*). 460820
- knudsen flow**
Experimental study of gaseous lithium deuterides and lithium oxides. (B12, B24). 468754
- neutron reactions**
Neutronic performance of candidate tritium breeding materials. (A14). 485748
- proton channeling**
Electromigration in ion bombardment. (B25; Helium* and deuterium*). 460820
- solubility**
A determination of the solubility of lithium oxide in liquid lithium by fast neutron activation. (B11). 468683
- thermodynamic properties**
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- vapors**
Experimental study of gaseous lithium deuterides and lithium oxides. (B12, B24). 468754
- LITHIUM SULFATES:**
phase studies
Thermographic and x-ray phase investigation of $\text{Li}_2\text{SO}_4\text{-Na}_2\text{SO}_4\text{-Cs}_2\text{SO}_4$ and $\text{Na}_2\text{SO}_4\text{-K}_2\text{SO}_4\text{-Ti}_2\text{SO}_4$ ternary systems. (B12). 478882
- LITHIUM TRITIDES:**
thermodynamic properties
Current status of fusion reactor blanket thermodynamics. (A14, B22). 485825
- LITHIUM TUNGSTATES:**
triclinic lattices
Triclinic modification of lithium-rare earth tungstates $\text{LiLn}(\text{WO}_4)_2$, $\text{Ln} = \text{La-Sm}$. (B12). 493634
- LITHIUM 10:**
hypernuclei
Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
- LITHIUM 6:**
binding energy
Binding energy of ^6Li with velocity-dependent potential and importance of saturation. (A33). 468356
Validity and accuracy of separable potentials in three-body calculations. (A33). 475764
cluster model
A selfconsistent description of ^6Li in terms of four-body and two-body substructures. (A33). 483735
Study of the two body dissociation of light nuclei in nuclear fields. Progress report, January 1, 1978-June 30, 1979. (A34; Summaries of research activities at Louisiana State University). 486409
decay
On possibility of the observation of the parity forbidden hadron decay with $\Delta T=1$. (A34; $(^6\text{Be}, \text{p}) \rightarrow ^{10}\text{B} \rightarrow \alpha + ^6\text{Li}$). 493351
energy levels
Concerning the existence of a 16 MeV level in ^6Li . (A34). 475845
Proposal for an intense polarized Li-ion source. (A12, A33). 488747
excited states
Energy spectra of $^6\text{Li}^*(\text{O}^+, \text{T}^-; 3.56 \text{ MeV})$ after γ -decay in flight. (A34). 486347
hypergeometric functions
Method of generalized hyperspherical functions and properties of ^6Li nucleus. (A33). 462611
isotope effects
Lithium isotope effects in chemical exchange with (2,2,1) cryptand. (B12). 490356
isotope ratio
Fractionation effect in thermionic emission of lithium isotopes. (B11). 462655
Mass spectrometric analysis of lithium. (B11). 481623
isotope separation
Characteristic analysis of isotope separation in rotating plasma. (B12). 476043
Separation of isotopes of lithium and uranium by electromigration using cation exchange membranes. (B12, B13). 475954
laser isotope separation
Method for separation and enrichment of lithium isotopes by laser. (D13; Patent). 480289
nuclear radii
Binding energy of ^6Li with velocity-dependent potential and importance of saturation. (A33). 468356
nuclear structure
"Model-free" information on nuclear structure from electron inelastic scattering. (A33). 493181
nucleosynthesis
Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
Production of $A = 6$ and 7 isotopes in the $\alpha + \alpha$ reaction. (A34, A15). 468489
shell models
Method of generalized hyperspherical functions and properties of ^6Li nucleus. (A33). 462611
spectral functions
Translationally invariant spectral function for ^6Li . (A33). 490103
- LITHIUM 6 BEAMS:**
photoionization
A source of highly polarized electrons at the Stanford Linear Accelerator Center. (E16, D14). 491559
- LITHIUM 6 REACTIONS:**
Proton-neutron interaction in odd-odd indium nuclei. (A34, A22; Angular distribution, level structure, pairing-plus-quadrupole model, multiplets). 460333
alpha-transfer reactions
 α spectroscopic factors in ^{40}Ca . (A34). 475807
 α -particle spectroscopy in Ni and Zn. (A33). 475707
 α -transfer spectroscopic factors in ^{23}Na . (A33). [Data] 464970
A study of the $^{21}\text{V}(^6\text{Li}, \text{d})^{26}\text{Mn}$ reaction. (A34). 478689
breakup reactions
The continuum break-up of ^6Li . (A34). 486363
Experimental studies of a particular reaction type-transfer of ^6Li -breakup fragments. (A34). 465198
Transfer of ^6Li breakup fragments at ^6Li projectile energies far above the coulomb barrier. (A34). [Data] 483907
compound-nucleus reactions
High-spin states in odd-mass /sup 113en-dash119/Sb: $\Delta J = 1$ bands on $9/2^+$ proton-hole states. (A34). 478769
Search for $\alpha\alpha^*$ rotational levels in ^{26}Be . (A34). 468576
Superallowed Fermi decay of ^{52}Ga . (A34). 478721
elastic scattering
Elastic and inelastic scattering of ^6Li by ^{40}Ca and ^{44}Ca . (A34; 30 MeV: angular distributions for scattering and $(^6\text{Li}, ^4\text{He})$ reaction). [Data] 486326
Elastic scattering of 90 MeV ^6Li ions. (A34). 490168
Optical models from experiments with oriented heavy ions. (A34). 465232
Validity of refined folding model approaches for light projectile scattering. (A33). [Data] 465028
heavy ion fusion reactions
Collective properties of the odd-mass Cs nuclei. I. /sup 127,129,131,133/Cs. (A34). 468486
Fusion and nonfusion processes in reactions induced by 10-100-MeV ^6Li ions with Fe targets. (A34). 475818
Mean lifetime of the 6.38 MeV 8^+ state in ^{56}Fe . (A34). [Data] 493416
inelastic scattering
Elastic and inelastic scattering of ^6Li by ^{40}Ca and ^{44}Ca . (A34; 30 MeV: angular distributions for scattering and $(^6\text{Li}, ^4\text{He})$ reaction). [Data] 486326
mev range 10-100
The $^{64}\text{Ni}(^6\text{Li}, \text{d})^{68}\text{Zn}$ reaction. (A34). 468441
multi-nucleon transfer reactions
On the kinematics of a multi-nucleon transfer reaction. (A33). 493216
nuclear potential
Optical potentials for light and heavy ion scattering. (A33). 493231
precompound-nucleus emission
Fusion and nonfusion processes in reactions induced by 10-100-MeV ^6Li ions with Fe targets. (A34). 475818
transfer reactions
Exact-finite-range DWBA analysis of $^{12}\text{C}(^6\text{Li}, \alpha)^{14}\text{N}$ reaction at $E(^6\text{Li}) = 20 \text{ MeV}$. (A33). 460304
two-nucleon transfer reactions
Elastic and inelastic scattering of ^6Li by ^{40}Ca and ^{44}Ca . (A34; 30 MeV: angular distributions for scattering and $(^6\text{Li}, ^4\text{He})$ reaction). [Data] 486326
- LITHIUM 6 TARGET:**
alpha reactions
 (α, ap) quasifree proton knockout reaction on ^2H , ^6Li , and ^{19}F . (A34; 140 MeV). 486429
 $\alpha^6\text{Li}$ scattering and vertex constant for the $^6\text{Li} \rightarrow \alpha + \alpha$ vertex. (A33). 493159
A method for analytically computing the resonating-group kernel function and its application to $\alpha + ^6\text{Li}$ scattering. (A33). 472212
Resonance strength of the 1175 keV resonance in $^6\text{Li}(\alpha, \gamma)^{10}\text{B}$. (A34). 472299
Resonance strength of the 1175 keV resonance in $^6\text{Li}(\alpha, \gamma)^{10}\text{B}$. (A34). 475847
carbon 12 reactions
Investigation of nuclear reaction mechanisms and technics of spin determination through an analysis of the angular distributions and correlations. Application to $^{12}\text{C}(^{12}\text{C}, \alpha)^{20}\text{Ne}$, $^{16}\text{O}(^6\text{Li}, \text{t})^{20}\text{Ne}$ and $^{12}\text{C}(^6\text{Li}, \text{d})^{14}\text{O}$. (A34). 472249
deuteron reactions
 $^6\text{Li} + \text{d}$ reactions below $E_{\text{sub}}(\text{d}) = 200 \text{ keV}$. (A34). [Data] 486462
Absolute cross sections for three-body breakup reactions $^6\text{Li}(\text{d}, \text{n})^3\text{He}^*\text{He}$ and $^6\text{Li}(\text{d}, \text{p})^3\text{H}^*\text{He}$. (A34). 475815
 $\text{d} + ^6\text{Li}$ reactions at low energy. (A33). 486224
Measurements and calculations of neutron spectra from 35 MeV deuterons on thick lithium for the FMIT facility. (A33, A14). 486240
Search for $A_{\text{sub}}(\gamma) = 1$ and $A_{\text{sub}}(\gamma\gamma) = 1$ points in the $^6\text{Li}(\text{d}, \text{pol}) \alpha^4\text{He}$ reaction. (A34). 468550
electron reactions
Concerning the existence of a 16 MeV level in ^6Li . (A34). 475845
helium 3 reactions
Experimental investigation of $^6\text{Li}(^3\text{He}, \text{n})^8\text{Be}$ reaction at low ^3He energy. (A34). 483819
Measurement of the $^6\text{Li}(^3\text{He}, \text{d})^8\text{Be}$ and $^7\text{Li}(^3\text{He}, \text{t})^8\text{Be}$ cross sections. (A34, A14; 2.0 to 6.0 MeV). 460354
Some thoughts on the $\text{p}(^6\text{Li}, \alpha)^4\text{He}(^6\text{Li}, \text{p})^8\text{Be}$ chain reaction, plasma theory memo number 79/18. (A14). 485773
kaon reactions
Calculation of total cross sections for interactions of pions and kaons with nuclei based on the optical model. (A33). 493322
muon reactions
Differential muon-capture rate for the reaction $\mu^- + ^6\text{Li} \rightarrow ^3\text{H} + ^3\text{H} + \nu/\text{sub } \mu^-$. (A33). 490086
Muon capture in ^6Li in the dition channel by the use of the elementary particle model. (A33). [Data] 465034
Study of the experimental conditions of measurement of the μ capture ratio in liquid hydrogen by mean of the lifetime method.

- Application to a total capture in lithium. (A34). 472277
 Study on the $\mu^- {}^6\text{Li} \rightarrow {}^3\text{H}^0\text{He}$ reaction in photoemulsion loaded with ${}^6\text{Li}$. (A34). 478699
- neutron reactions**
 Angular distributions of the ${}^6\text{Li}(n,t){}^4\text{He}$ and ${}^{10}\text{B}(n,\alpha){}^7\text{Li}$ reactions at 2 and 24 keV. (A34). 478773
 Deuteron exchange mechanism for the ${}^6\text{Li}(n,\alpha)$ reaction at low energies. (A33). [Data] 468430
 Differential neutron scattering cross sections of lithium-6 and lithium-7 for neutrons of 4 to 7.5 MeV energy. (A34). 460342
 Elastic and inelastic scattering of 7- to 14-MeV neutrons from lithium-6 and lithium-7. (A34; Total and differential cross sections). [Data] 490179
 Elastic and inelastic scattering of fast neutrons by ${}^6\text{Li}$, ${}^7\text{Li}$, ${}^9\text{Be}$, and ${}^{12}\text{C}$. (A34; 7 to 15 MeV: differential cross sections). 460338
 Neutron flux monitoring and data analysis for neutron standard reaction cross sections. (D15, E41, A34; 5 to 800 KeV). 480303
 New measurement of the ${}^6\text{Li}(n,\alpha)\text{T}$ cross section. (A34; 3 to 800 keV). 478741
 Tritium production in a sphere of ${}^6\text{LiD}$ irradiated by 14-MeV neutrons. (A33, A31, B25). 468328
- photofission**
 The photodisintegration of ${}^6\text{Li}$ and ${}^7\text{Li}$. (A34). [Data] 486402
- photonuclear reactions**
 Concerning the existence of a 16 MeV level in ${}^6\text{Li}$. (A34). 475845
 Study on the $(\gamma, \pi^0 p)$ reaction on Li^6 , C^{12} and O^{16} nuclei in the wide range of momentum transfer. (A34). 478726
 Total photonuclear absorption cross section in the region of the Δ -resonance. (A34). 465077
- pion minus reactions**
 Investigation of the three-particle reaction $\pi^- + {}^6\text{Li} \rightarrow \alpha + n + n$ in the hyperspherical basis. (A33). 493201
 Single-neutron emission induced by stopped π^- in 1p shell nuclei. (A34). 483834
 Two-neutron emission in the absorption of stopped pions on lithium isotopes. (A34). 486329
- pion reactions**
 Calculation of total cross sections for interactions of pions and kaons with nuclei based on the optical model. (A33). 493322
- proton reactions**
 Dynamics of cluster fragment production in the ${}^6\text{Li}(p, p^0){}^3\text{He}$ quasi-elastic knock-out reaction with account for distorting factors. (A33, A21). 464992
 Effect of ${}^6\text{Li} + {}^6\text{Li}$ reactions in a fusion reactor operating of ${}^6\text{Li}(p,\alpha){}^3\text{He}$. (A14). 489322
 Investigation of the (p, nd) reaction on ${}^6\text{Li}$ and ${}^7\text{Li}$ at 670 MeV. (A34, A33). [Data] 493332
 Observation of dependence of left-right asymmetry of $(635 + 15)$ -MeV proton quasi-elastic scattering by ${}^6\text{Li}$, ${}^{12}\text{C}$ and ${}^{16}\text{O}$ nuclei on the recoil nucleus momentum. (A34). 465192
 Some thoughts on the $p({}^6\text{Li}, \alpha){}^3\text{He}({}^6\text{Li}, p){}^8\text{Be}$ chain reaction, plasma theory memo number 79/18. (A14). 485773
 Study on quasi-elastic knock-out of proton pairs from Li^6 and C^{12} nuclei by 640 MeV protons. (A34). 478756
 Transfer reactions at intermediate energies. (A34). 483933
- stripping**
 Stripping of a charged particle into a resonance state. (A33). 493194
- LITHIUM 7:**
- chemical composition**
 Constraints on cosmology and neutrino physics from big bang nucleosynthesis. (A15). 464694
 Light-element abundances, galactic evolution, and the universal baryon density. (A15). 478294
- cluster model**
 On the momentum distribution of alpha clusters in ${}^7\text{Li}$ and ${}^9\text{Be}$ nuclei. (A33). 493184
- electron spin resonance**
 Polarized targets in high energy and elsewhere. (E16, E41). 491555
- excited states**
 Asymmetric decay of the ${}^7\text{Li}(4.63 \text{ MeV})$ excited state producing in the ${}^9\text{Be}(d,t)\alpha$ reaction. (A34). 493437
- hypernuclei**
 Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
 Hypernuclei. (A22). 468205
- isotope ratio**
 Fractionation effect in thermionic emission of lithium isotopes. (B1). 462655
 Mass spectrometric analysis of lithium. (B11). 481623
- isotope separation**
 Separation of isotopes of lithium and uranium by electromigration using cation exchange membranes. (B12, B13). 475954
- nuclear magnetic resonance**
 Characterization of heat treatment induced changes in Li-Na beta-alumina single crystals. (B22, B21). 490577
 Polarized targets in high energy and elsewhere. (E16, E41). 491555
- nucleosynthesis**
 Experimental and semi-empirical study of light nuclei spallation. Application to Li, Be and B nucleosynthesis in the galaxy. (A34, A15). 472292
 Production of $A = 6$ and 7 isotopes in the $\alpha + \alpha$ reaction. (A34, A15). 468489
- quadrupole moments**
 Charge and mass quadrupole moment effects of ${}^7\text{Li}$ in the elastic scattering of polarized ${}^7\text{Li}$ ions. (A34). 486346
- spin orientation**
 Dynamic nuclear polarization of the ${}^7\text{Li}^+$ ion in free radical solutions. (B14, A12). 486750
- LITHIUM 7 BEAMS:**
- polarized beams**
 Nuclear polarized ${}^7\text{Li}$ and ${}^{14}\text{N}$ ions via ion beam surface interaction at grazing incidence. (A34, A12). [Data] 481614
- LITHIUM 7 REACTIONS:**
 L-shell x-ray production cross sections due to ${}^1\text{H}$, ${}^4\text{He}$, and ${}^7\text{Li}$ ion bombardment of selected thin rare earth and Pb targets. (A34; 0.15 to 4.8 MeV/amu). 468520
 Proton-neutron interaction in odd-odd indium nuclei. (A34, A22; Angular distribution, level structure, pairing-plus-quadrupole model, multiplets). 460333
- alpha-transfer reactions**
 A DWBA analysis of heavy ion α -transfer reactions on ${}^{16}\text{O}$. (A34). 460326
 Heavy ion induced α -transfer on targets of mass 12 to 15. (A34). 462629
- elastic scattering**
 Optical models from experiments with oriented heavy ions. (A34). 465232
- heavy ion fusion reactions**
 In-beam gamma-ray spectroscopy studies in ${}^{68}\text{Ge}$ and ${}^{72}\text{Ge}$. (A34; J, π lifetime). 468460
- multi-nucleon transfer reaction**
 On the kinematics of a multi-nucleon transfer reaction. (A33). 493216
- nuclear potential**
 Optical potentials for light and heavy ion scattering. (A33). 493231
- LITHIUM 7 TARGET:**
- deuteron reactions**
 Varied applications of a new maximum-likelihood code with complete covariance capability. (A30, E21; FERRET, for data adjustment). 460247
- energy losses**
 An analytical method for determining the thickness of targets used for nuclear reaction studies. (A33). 475767
- helium 3 reactions**
 Measurement of the ${}^6\text{Li}({}^3\text{He}, d){}^7\text{Be}$ and ${}^7\text{Li}({}^3\text{He}, t){}^8\text{Be}$ cross sections. (A34, A14; 2.0 to 6.0 MeV). 460354
- muon reactions**
 Study of the experimental conditions of measurement of the μ capture ratio in liquid hydrogen by mean of the lifetime method. Application to a total capture in lithium. (A34). 472277
- neutron reactions**
 (n, p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). 486407
- [Data]
 Differential neutron scattering cross sections of lithium-6 and lithium-7 for neutrons of 4 to 7.5 MeV energy. (A34). 460342
 Elastic and inelastic scattering of 7- to 14-MeV neutrons from lithium-6 and lithium-7. (A34; Total and differential cross sections). [Data] 490179
 Elastic and inelastic scattering of fast neutrons by ${}^6\text{Li}$, ${}^7\text{Li}$, ${}^9\text{Be}$, and ${}^{12}\text{C}$. (A34; 7 to 15 MeV: differential cross sections). 460338
 Tritium production in a sphere of ${}^6\text{LiD}$ irradiated by 14-MeV neutrons. (A33, A31, B25). 468328
- oxygen 16 reactions**
 Investigation of nuclear reaction mechanisms and technics of spin determination through an analysis of the angular distributions and correlations. Application to ${}^{12}\text{C}({}^{16}\text{O}, \alpha){}^{28}\text{Ne}$, ${}^{16}\text{O}({}^7\text{Li}, t){}^{20}\text{Ne}$ and ${}^{12}\text{C}({}^6\text{Li}, d){}^{16}\text{O}$. (A34). 472249
- photofission**
 The photodisintegration of ${}^6\text{Li}$ and ${}^7\text{Li}$. (A34). [Data] 486402
- photonuclear reactions**
 On absorption of photons by light nuclei. (A33). 493185
 Total photonuclear absorption cross section in the region of the Δ -resonance. (A34). 465077
- pion minus reactions**
 Particle unstable ${}^4\text{H}$. (A34). 468526
 Single-neutron emission induced by stopped π^- in 1p shell nuclei. (A34). 483834
 Two-neutron emission in the absorption of stopped pions on lithium isotopes. (A34). 486329
- pion reactions**
 Pion scattering at $T_{\text{sub}}(\pi^-) = 163 \text{ MeV}$ from ${}^7\text{Li}$. (A34). 465106
- proton reactions**
 Investigation of the (p, nd) reaction on ${}^6\text{Li}$ and ${}^7\text{Li}$ at 670 MeV. (A34, A33). [Data] 493332
 Study of proton inelastic and elastic scattering in ${}^7\text{Li}$. (A33, A34). 472150
- stripping**
 Stripping of a charged particle into a resonance state. (A33). 493194
 Stripping of a charged particle into a resonance state. (A33). 493194
- thickness**
 An analytical method for determining the thickness of targets used for nuclear reaction studies. (A33). 475767
- LITHIUM 9:**
- energy levels**
 (n, p) reaction at 60 MeV on ND-2 targets. (A34; M1 strength, angular distribution, transitions, giant resonance, cross sections). 486407
- [Data]
 Formation of, and the lambda-radiation from, the rho-shell hypernuclei. (A21). 464771
- LITHOLOGY:**
 See PETROLOGY
- LITTER SIZE:**
- biological radiation effects**
 Reproductive function in mice exposed to ancestral and direct irradiation. (C14; Gamma radiation). 461050

LIVER:

- activation analysis**
Critical concentrations of cadmium in human liver and kidney measured by prompt-gamma neutron activation. (B11). [Data] 478800
- Evaluation of some procedures relevant to the determination of trace elemental components in biological materials by destructive neutron activation analysis. (B11). 468595
- antigens**
Elevated serum levels of a biliary glycoprotein (BGP I) in patients with liver or biliary tract disease. (C45). 476663
- biological functions**
Mathematical simulation in estimation of absorption-excretion functions of liver. (C62). 494546
- biological radiation effects**
Anticoagulation and high dose liver radiation. A preliminary report. (C15, C63). 469706
- biomedical radiography**
Roentgen stereophotogrammetry for evaluation of liver volume and shape. (C61). 473341
- Role of angiographic methods in diagnosis of primary and metastatic liver cancer. (C61). 480243
- blood flow**
A comparison of xenon-133 clearance with electromagnetic flowmeters and an indicator dilution method for the measurement of liver blood flow. (C62). 487745
- cadmium 109**
Cadmium accumulation and metabolism by rat liver parenchymal cells in primary monolayer culture. (C21). 461088
- cat scanning**
Evaluation of three imaging instruments in dogs with liver hematomas: concise communication. (C62, C61, E41; /sup 99mTc-sulfur colloid). 491323
- A prospective research study of liver metastases by using computer tomography. (C61). 473336
- Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
- cell cultures**
Cadmium accumulation and metabolism by rat liver parenchymal cells in primary monolayer culture. (C21). 461088
- cuex**
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- delayed radiation effects**
Inhalation carcinogenesis of high-fired ²⁴⁴CmO₂ in rats. (C21). 461105
- Thorotrast associated hepatic angiosarcoma with 36 years latency. (C21). 461112
- diagnosis**
Investigation of the hepatobiliary system by means of ¹²⁵I-labelled Bengal rose. (C62). 470184
- diagnostic techniques**
The place of radionuclide scintigraphy in the radiology of focal hepatic lesions. (C62). 482432
- dose commitments**
Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
- AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- dynamic function studies**
Clinical comparison of /sup 99mTc-diethyl-iminodiacetic acid, /sup 99mTc-pyridoxylideneglutamate, and ¹³¹I-rose bengal in liver transplant patients. (C62, C31). 470122
- Hepatic clearance mechanism of /sup 99mTc-HIDA and its effect on quantitation of hepatobiliary function concise communication. (C62, C21, C31; HIDA = N(2,6-dimethylphenylcarbamoylmethyl)iminodiacetic acid; dogs). 473433
- early radiation effects**
Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958
- genetic radiation effects**
Study of somatic cell mutability of the progeny of irradiated male rats. (C14). 479872
- image processing**
Computer analysis of liver scans. (C31). 469819
- iron**
Nuclear resonance fluorescence: new technique for in vivo iron determination in man. (C62, B11). 491361
- malformations**
Unusual scintigraphic appearances of a mobile accessory lobe of the liver. (C62; ⁶⁷Ga; /sup 99mTc-sulfur colloid; /sup 99mTc-dihydrothioic acid). 470075
- messenger-rna**
Effects of ionizing radiation and partial hepatectomy on messenger RNA synthesis. (C14). [Data] 463103
- metastases**
A prospective research study of liver metastases by using computer tomography. (C61). 473336
- portal system**
Percutaneous transhepatic portography. (C61). 473354
- quantitative chemical analysis**
Solvent extraction method for determination of thorium in soft tissues. (B11, C11). 472383
- radiation doses**
Disposition of americium-241 oxide following inhalation by beagles. (C21). 491017
- Distribution of fallout plutonium in southern Finns. (C21, C22). [Data] 473074
- Measurements of ²⁴¹Am in vivo at long times after inhalation. (C21). 479967
- Plutonium injection cases: an update to 1977. (C21; ²³⁸Pu, ²³⁹Pu). 479956
- radiation injuries**
Response of mice liver to continuous beta-irradiation from tritiated water. (C21). 469736
- radioactivity**
Concentrations of ¹³⁷Cs, ²¹⁰Po, and ²³⁹/²⁴⁰Pu in tissues of Lapps. Preliminary report. (C21, C22; Comparison with concentrations in tissues of southern Finns). [Data] 473075
- Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). 494348
- Distribution of fallout plutonium in southern Finns. (C21, C22). [Data] 473074
- Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- radionuclide kinetics**
Analysis of hepatic retention of plutonium in the mouse. (C21). 491033
- Benign cause of increased radiocolloid accumulation on a liver scan. (C62, C21; Accumulation of /sup 99mTc-radiocolloid as a result of a benign alteration of hepatic morphology). 487690
- Concentration of /sup 99mTc methylenediphosphonate in hepatic metastases from squamous cell carcinoma. (C62, C21). 473497
- Concentrations of ¹³⁷Cs, ²¹⁰Po, and ²³⁹/²⁴⁰Pu in tissues of Lapps. Preliminary report. (C21, C22; Comparison with concentrations in tissues of southern Finns). [Data] 473075
- Disposition of ²³⁸Pu(NO₃)₄ following inhalation by beagle dogs. (C21). [Data] 473049
- Lead distribution and effects during development in the rat. (C21; ²¹⁰Pb). 461092
- Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- Retention and distribution of ²⁴³/²⁴⁴Cm in C57BL/Do mice. (C21). 461109
- Simple computer quantitation of spleen-to-liver ratios in the diagnosis of hepatocellular disease. (C62, C21; /sup 99mTc-sulfur colloid). 473491
- Thorotrast associated hepatic angiosarcoma with 36 years latency. (C21). 461112
- Toward an optimal DTPA therapy for decorporation of actinides: time-dose relationships for plutonium in the dog. I. (C21). 491020
- Xenon-133 retention in hepatic steatosis - correlation with liver biopsy in 45 patients: concise communication. (C62, C21, C31). 487672
- Zinc absorption and metabolism in animals. (C21; Rats, Calves, ⁶⁵Zn). 473057
- radiopharmaceuticals**
Evaluation of three imaging instruments in dogs with liver hematomas: concise communication. (C62, C61, E41; /sup 99mTc-sulfur colloid). 491323
- Technetium - 99m - labelled HIDA: a new radio-pharmaceutical for the dynamic research investigation of liver functions. (C62). 473416
- rna**
¹⁴The role of cortisone acetate in liver RNA synthesis of gamma-irradiated rats. (C14). [Data] 463102
- scintiscanning**
/sup 99mTc-IDA hepatobiliary imaging following upper abdominal surgery. (C62, C31; IDA = acetanilide iminodiacetic acid). 494547
- /sup 99mTc-IDA imaging in the differential diagnosis of acute cholecystitis and acute pancreatitis. (C62). 470098
- Benign cause of increased radiocolloid accumulation on a liver scan. (C62, C21; Accumulation of /sup 99mTc-radiocolloid as a result of a benign alteration of hepatic morphology). 487690
- Cholescintigraphy. (C62). 461419
- Clinical comparison of /sup 99mTc-diethyl-iminodiacetic acid, /sup 99mTc-pyridoxylideneglutamate, and ¹³¹I-rose bengal in liver transplant patients. (C62, C31). 470122
- Clinical evaluation of computer processing of liver gamma camera scans. (C62). 491345
- Clinical evaluation of /sup 99mTc-(Sn)-PI [sup 99mTc-(Sn)-pyridoxylidene isoleucine] in the various hepatobiliary disorders. (C62). 482375
- Comparison of /sup 99mTc diethyl-iminodiacetic acid and ¹³¹I rose bengal for hepatobiliary studies in liver-transplant patients: concise communication. (C62, C21). 473446
- Computer-assisted liver-mass estimation from gamma-camera images. (C62; /sup 99mTc-sulfur colloid imaging). 473423
- Computerized double-tracer subtraction scanning with Gallium-67 citrate in inflammatory diseases. (C62). 470086
- Hepatology. (C61; Radionuclide studies). 482315
- Hepatic clearance mechanism of /sup 99mTc-HIDA and its effect on quantitation of hepatobiliary function concise communication. (C62, C21, C31; HIDA = N(2,6-dimethylphenylcarbamoylmethyl)iminodiacetic acid; dogs). 473433
- Hepatoscanning in diagnosis and therapy efficiency estimation in case of primary liver diseases. (C62). 482326
- The importance of scientific research on the liver. (C62). 473407
- Liver and spleen imaging. (C62). 484729
- New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99mTc). 473442

- Radionuclide assessment of Gaucher's disease. (C62, C31; /sup 99m/Tc-sulfur colloid and -methylene diphosphonate). 470080
- Scanning with Au¹⁹⁸ in experimental hepatic trauma. (C62). 461403
- Scintigraphy and ultrasonography of hepatic hemangioma. (C62, C60; /sup 99m/Tc-sulfur colloid). 487749
- Simple computer quantitation of spleen-to-liver ratios in the diagnosis of hepatocellular disease. (C62, C21; /sup 99m/Tc-sulfur colloid). 473491
- Subdiaphragmatic adiposity mimicking ascites by liver-lung scintigraphy. (C62; /sup 99m/Tc-macroaggregated albumin and /sup 99m/Tc-sulfur colloid). 487725
- Unusual scintigraphic appearances of a mobile accessory lobe of the liver. (C62; ⁶⁷Ga; /sup 99m/Tc-sulfur colloid; /sup 99m/Tc-dihydrothioic acid). 470075
- Xenon-133 retention in hepatic steatosis - correlation with liver biopsy in 45 patients: concise communication. (C62, C21, C31). 487672
- technetium 99**
- A technique for the absolute measurement of activity using a gamma camera and computer. (C62). 466411
- tomography**
- New transverse-section brain imager for single-gamma emitters. (C62, C61, B11; Evaluation of new emission transverse-section scanner and comparison of clinical effectiveness with scintiscanning and CAT scanning using /sup 99m/Tc). 473442
- tracer techniques**
- A comparison of xenon-133 clearance with electromagnetic flowmeters and an indicator dilution method for the measurement of liver blood flow. (C62). 487745
- wounds**
- Scanning with Au¹⁹⁸ in experimental hepatic trauma. (C62). 461403
- x-ray emission analysis**
- Analysis of human blood and liver tissue for copper, zinc and iron by the method of proton-induced X-ray emission analysis. (B11). 460388
- [Data]
- Proton induced X-ray emission analysis of Pima Indian autopsy tissues. (B11). 490298
- LIVER CIRRHOSIS:**
- diagnosis**
- Simple computer quantitation of spleen-to-liver ratios in the diagnosis of hepatocellular disease. (C62, C21; /sup 99m/Tc-sulfur colloid). 473491
- scintiscanning**
- Functional cholestiscintigraphy with sup(99m)Tc-HIDA. (C62). 494561
- technetium 99**
- Functional cholestiscintigraphy with sup(99m)Tc-HIDA. (C62). 494561
- LIXIVIATION:**
- See LEACHING
- LMFBR TYPE REACTORS:**
- See also PLBR REACTOR
- Design stage probabilistic assessment of prototype LMFBR safety systems. (C52, E35). 487515
- Exchanger pump unit for nuclear reactors. (E35). 495021
- Flow measurement in main sodium pipes. (E35). [Data] 495002
- Liquid metal fast breeder reactors. (E35). 484985
- Overview of U.S. fast reactor irradiation test vehicles. (E36, E35). 474001
- West German perspective on the need for the plutonium-fueled LMFBR. (E35, F12). 488143
- after-heat removal**
- Investigations of decay heat removal by natural convection with boiling in sodium cooled fast reactors. (E35). 466726
- Large pool LMFBR design. Executive summary. (E35). 470773
- Study of transient and permanent flow in the event of natural convection in a confined environment. (E35). 473992
- air cleaning**
- Performance of a wet cell washer for sodium fire aerosols. (C52, E35). 480077
- Separation of krypton and xenon from reactor atmospheres by selective permeation. Final report. (C52, E35, C54; LMFBR). 461298
- air filters**
- Nucleation and capture of condensable airborne contaminants in an aqueous scrubbing system. (C52, E35, C54; LMFBR). 469950
- atws**
- LMFBR safety and sodium boiling. (C52, E35). 461221
- background noise**
- Acoustic background noise of a liquid metal fast breeder reactor. (E35). 488126
- breeding**
- Heterogeneous cores for LMFBR improves breeding. (E35). 463664
- breeding blankets**
- Buoyancy effects on sodium coolant temperature profiles measured in an electrically heated mock-up of a 61-rod breeder reactor blanket assembly. (E35). 488135
- Economic performance of liquid-metal fast breeder reactor and gas-cooled fast reactor radial blankets. (E35). 488168
- breeding ratio**
- Performance of thorium-fueled fast breeders. (E35). 470761
- casks**
- Energy for the long run: fission or fusion. (E35; Comparison of fission and fusion reactors). [Data] 461772
- closures**
- Maintenance system for immersed seals, specifically for nuclear reactors. (E35; LMFBR rotating closure plugs). 473982
- cold traps**
- Development of cold trap for LMFBR. (E35). 492004
- containment buildings**
- Device for providing a leak-tight penetration for electric cables through a reactor vault roof. (E35; Patent; LMFBR). 480682
- containment systems**
- Experimental investigation of aerosol behavior in a post-LMFBR accident reactor containment atmosphere. (C52, E35). 487606
- Pool-type LMFBR Plant 1000 MWe phase A-extension-1 design. Part I. Executive summary. Interim report. (E35). 461761
- control elements**
- Europia as a nuclear control material. (E24, E35, B23; LMFBR). 470601
- Safety arrangement for nuclear reactors. (E24). 482723
- Variable flow control for a nuclear reactor control rod. (E24, E35; Patent; LMFBR). 473822
- control equipment**
- Apparatus for controlling coolant level in a liquid-metal-cooled nuclear reactor. (E35; Patent). 488146
- control rod worths**
- Loading error simulations and control worth measurements in a ZPPR critical assembly of heterogeneous configuration. (C52, E35). 487526
- conversion ratio**
- Fast nuclear reactor. (E35). 473964
- coolant cleanup systems**
- Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part XIII: balance of plant - evaluation of pool-related areas. Final report. (E35). 494980
- Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part VI: auxiliary systems; Part VII: plant control and instrumentation; Part VIII: seismic analysis. Final report. (E35). 494997
- core catchers**
- Collecting tank with evaporation protection for a nuclear reactor. (E35). 461782
- A device of extinguishing a liquid fuel by remoteness. (E35; LMFBR, core catchers). 470744
- core spray systems**
- Emergency system for nuclear reactors. (E35; LMFBR type reactors). 470743
- cover gas**
- Diffusion coefficients of sodium vapors in argon and helium. (E35, B22). 473967
- creep**
- Thermal analysis of an in-reactor LMFBR irradiation creep experiment. (E17, E35). 491695
- design basis accidents**
- Experimental and theoretical studies on the pressure build-up of core materials in hypothetical accidents. (E35). 461744
- Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part IX: constructability and fabricability; Part X: maintainability and inspectability; Part XI: safety. Final report. (E35). 494998
- ducts**
- Gamma prime hardened nickel-iron based superalloy. (B21, B22, E35; Patent). 479349
- economics**
- Application of an LP model to breeder strategy studies. (E35). 488167
- electric cables**
- Device for providing a leak-tight penetration for electric cables through a reactor vault roof. (E35; Patent; LMFBR). 480682
- A system of penetration of a nuclear reactor slab for measurement cables. (E22; LMFBR type reactors). 470521
- energy storage**
- Thermal plant for energy production. (E35; LMFBR type reactors). 463689
- environment**
- Fast breeders and environment. (C52, E35). 466303
- excursions**
- Fuel pin modeling of the fresh oxide/sodium prompt burst energetics experiments. (C52, E35; LMFBR). 461329
- Prompt burst energetics (PBE) studies. (C52, E35). 480132
- failed element detection**
- Detection device for fuel failure. (E35). 492001
- Gaseous fission-product detector for LMFBR failed-fuel detection. (E35). 477284
- failed element monitors**
- Fuel failure detection experiment using UO₂-loaded sodium in-pile loop. (E24, E41, E35). 466643
- Process and system for detecting and pre-locating a clad failure in a fast neutron nuclear reactor. (E41, E35). 470931
- fault tree analysis**
- COMCAN II-A: a computer program for automated common cause failure analysis. (C52, E35; LMFBR). 487563
- fission product release**
- On-line ultrasonic gas entrainment monitor. (E42, E35; Patent; LMFBR fission gas bubble release). 470989
- Studies on aerosol behavior under accident conditions. (E35). 461748
- fission products**
- Carbon-14 production in nuclear reactors. (E31, E32, E33). 473859
- fission spectra**
- Influence of fission spectra uncertainties on calculated fast reactor parameters. (E35). 491995
- flow blockage**
- Experimental studies on local cooling perturbations. (E35, C52). 461766
- LMFBR safety and sodium boiling. (C52, E35). 461221
- flow regulators**
- Liquid metal cooled fast breeder nuclear reactors. (E35). 494987
- france**
- Breeders. (E35). 470737
- Liquid metal cooled fast reactors development in France. (E32). 488057

- fuel assemblies**
- COBRA-IV comparison with the WARD 11:1 scale LMFBR air flow tests. (E35). 488118
- COBRA-IV wire wrap data comparisons. (E35; LMFBR). 494986
- Comparison of numerical results with experimental data for single-phase natural convection in an experimental sodium loop. (E35; LMFBR). 495019
- Fabrication details for wire wrapped fuel assembly components. (E35; LMFBR). 488122
- Fast nuclear reactor. (E35). 473964
- Irradiation-swelling-induced bow in fast reactor subassemblies. (E35). 461784
- Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
- Spacer for supporting fuel element boxes. (E35; Patent; LMFBR). 480715
- Temperature-dependent liquid metal flowrate control device. (E35; Patent). 488127
- Theory and application of a quasi-Eulerian fluid element for the STRAW code. (C52, E35; LMFBR). 469928
- Thermal-hydraulic evaluation of advanced wire-wrap assemblies. (E35). 480712
- Turbulent sweeping flow mixing model for wire wrapped LMFBR assemblies. (E35, E11). 488130
- fuel cans**
- Effects of multiple transients on fast reactor fuel pin cladding mechanical properties. (E35, B22). 461754
- Fuel adjacency effects on fast reactor cladding mechanical properties. (E35, B25; LMFBR). 491983
- Modeling the mechanical response of a degraded reactor fuel clad. (B15, B25, E35). 469015
- Nuclear fuel elements. (E35). 482802
- Oxygen transport limitations in using getters to control fuel cladding chemical interaction. (E35, B15; LMFBR). 470775
- fuel cycle**
- ARC System fuel cycle analysis capability, REBUS-2. (F12, E35). 474344
- Fuel cycle cost studies: fabrication, reprocessing, and refabrication of LWR, SSCR, HWR, LMFBR, and HTGR fuels. (F12, B16). 466917
- Material control in nuclear fuel fabrication facilities. Part I. Fuel descriptions and fabrication processes, P.O. 1236909 Final report. (F42, B23, B21). 471167
- Pyrochemical coprocessing of UO_2 - PuO_2 LMFBR fuel by the Salt Transport Method. (B16). 479336
- Simple procedure for determining implications of design changes on fast reactor fuel cycle cost and breeding performance. (E35, F12). 480675
- fuel element clusters**
- Deformation analysis of fuel pins within the wire-wrap assembly of an LMFBR. (E35). 480700
- Experimental fuel assembly irradiation experience in EBR II. (E35, E36). 480688
- Input parameters to codes which analyze LMFBR wire wrapped bundles. Revision 1. (E35). 495030
- Laboratory manual for salt mixing test in rod bundles. (E35). 488148
- Laminar, transition, and turbulent parallel flow pressure drop across wire-wrap-spaced rod bundles. (E35, E11; LMFBR). 461756
- Multicell slug flow heat transfer analysis of finite LMFBR bundles. (E35). 495033
- fuel element failure**
- Analysis of internal fuel motion during PINEX-2 experiment. (C52, E35). 491182
- Fuel and coolant motions following pin failure: EPIC models and the PBE-5S experiment. (C52, E35; LMFBR). 480061
- LMFBR fuel analysis. Task A: oxide fuel dynamics. Final report, October 1977 - September 1978. (C52, E35). 487461
- Prediction of thermal consequences of plenum fission gas release in an LMFBR fuel assembly. (C52, E35). 487511
- Role of Rayleigh-Taylor instabilities in fuel-coolant interactions. (C52, E35, E11; LMFBR). 466284
- SIFAIL: a subprogram to calculate cladding deformation and damage for fast reactor fuel pins. (E35). 492017
- Simple fuel pin transient and melting model and its application to thermal-hydraulics in lmfbr subassembly. (C52, E35). 487441
- fuel elements**
- Advanced fast reactor fuels program. Second annual progress report, July 1, 1975 - September 30, 1976. (E35, B23). 480676
- CCB, a two-dimensional diffusion theory continuous cross-section burnup code for fast reactor analysis. Final report. (E35). 470742
- Irradiation performance of helium-bonded uranium-plutonium carbide fuel elements. (E35, B25; LMFBR). 466729
- Quality assurance for breeder reactor fuel fabrication. (E35). 488157
- fuel pellets**
- Alternative oxide fuel pellet fabrication for irradiation testing. (B21, E35; LMFBR). 460674
- Fabrication of ThO_2 , UO_2 , and PuO_2 - UO_2 pellets. (E35, B23; LMFBR). 495018
- Fuel crack volume predictions and measurements. (E35; LMFBR). 480683
- fuel pins**
- Actinide redistribution in the outer regions of mixed-oxide fuel. (E35). 461776
- Application of core structural design guidelines in conceptual fuel pin design. (E35; LMFBR). 488160
- Cesium migration in LMFBR fuel pins. (E35, B25). 480689
- Design and performance of sodium-bonded uranium-plutonium carbide fuel elements. (E35; LMFBR). 466727
- Early-in-life thermal performance of UO_2 - PuO_2 fast reactor fuel. (C52, E35, E36). 480018
- Fabrication and irradiation performance of $\text{Pu}_{0.25}\text{U}_{0.75}\text{O}_{1.91}$ low O/M fuel. (E35, B25; LMFBR). 461786
- HEDL mixed oxide fuel pin breach experience in EBR-II. (E35). 480711
- Interactions between thermal and structural behavior in FBR fuel pins. (E35). 491978
- Mixed oxide run-beyond-cladding-breach tests in EBR-II. (E35). 480710
- Neutronic considerations in the design of a fuel pin for a fast power reactor. (E35). 480697
- Performance of U-Pu-Zr metal fuel in 1000 MWe LMFBRs. (E35). 488151
- SIFAIL: a subprogram to calculate cladding deformation and damage for fast reactor fuel pins. (E35). 492017
- Steady state irradiation behavior of mixed oxide fuel pins irradiated in EBR-II. (E35; LMFBR). 480698
- W-1 SLSF experiment. (C52, E35; LMFBR). 487576
- fuel-cladding interactions**
- Effects of stoichiometry on cladding reaction in mixed-oxide fuel at high burnup. (E35, B25; PuO_2 - UO_2). 461775
- Effects of stoichiometry on cladding attack in UO_2 - PuO_2 . (E35, B15). 470757
- Fabrication and irradiation performance of $\text{Pu}_{0.25}\text{U}_{0.75}\text{O}_{1.91}$ low O/M fuel. (E35, B25; LMFBR). 461786
- Fuel-cladding chemical interaction in mixed-oxide fuels. (E35; LMFBR). 480695
- Oxygen transport limitations in using getters to control fuel cladding chemical interaction. (E35, B15; LMFBR). 470775
- fuel-coolant interactions**
- Characterization of fragmented fuel from a thermal fuel-sodium interaction. (C52, E35; LMFBR). 473230
- Experiments on fuel-coolant interaction under transient conditions. (E35). 461752
- Heat transfer and fluid flow aspects of fuel-coolant interactions. (C52, E35; LMFBR). 482212
- Some electron microprobe analysis results concerning the interaction between uranium-plutonium mixed-oxide fuel and stainless-steel cladding. (E35, B15). 470772
- Theoretical investigations of fuel-coolant interaction. (E35). 461749
- Thermochemical aspects of fuel-cladding and fuel-coolant interactions in LMFBR oxide fuel pins. (B12). 468687
- gaseous wastes**
- Biological behavior of mixed LMFBR-fuel-sodium aerosols. (B33, C21; Rats, ^{239}Pu). 472878
- Dissolution of LMFBR fuel-sodium aerosols. (B33; Plutonium dioxide). 472864
- Spectrophotometric analyses of LMFBR fuel-sodium aerosols. (B33; PuO_2 , U). 472882
- hazards**
- Energy for the long run: fission or fusion. (E35; Comparison of fission and fusion reactors). [Data] 461772
- heat exchangers**
- Device or installation for use in a liquid alkali metal environment. (E35). 466719
- Elastic-plastic-creep analysis of shells. (E35). 488159
- A fast reactor. (E35). 466716
- A heat exchanger provided with plates. (E35, E32; PWR type reactors or LMFBR type reactors). 463668
- Heat exchangers. (E35; LMFBR type reactors). 466717
- Tube boiler heat exchanger. (E35). 473962
- heat transfer**
- Transient flow and heat transfer of liquid sodium coolant in the outlet plenum of a fast nuclear reactor. (E35). 463679
- in core instruments**
- Nuclear instrumentation cable end seal. (E35; Patent). 488125
- in-service inspection**
- Ultrasonic techniques for in-service inspection of austenitic stainless steel welds at 200°C. (E35, E42, E17). 473972
- inspection**
- Surveillance of the vibrational behaviour of primary-circuit components. (E32, E35). 477226
- integrated cooling systems**
- Fast neutron reactor. (E35). 470754
- kinetics**
- Determination of current weighted total cross sections in the unresolved energy region. (A31, E35). 486158
- liquid flow**
- Transient flow and heat transfer of liquid sodium coolant in the outlet plenum of a fast nuclear reactor. (E35). 463679
- liquid metals**
- Boiling heat transfer under forced convection of sodium. (E35). 463685
- loss of coolant**
- Comparative analysis of a hypothetical coolant loss accident in an LMFBR reactor with the use of various calculation models for a common reference problem. (E35). 495023
- Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
- W-1 SLSF experiment. (C52, E35; LMFBR). 487576
- loss of flow**
- Acoustics and voiding dynamics during SLSF simulations of LMFBR undercooling transients. (C52, E35). 461164
- Acoustics of the Sodium Loop Safety Facility P2 experiment. (C52, E35; DOE). 466271
- Analysis of TREAT Tests L7 and L8 with SAS3D, LEVITATE and PLUTO2. (C52, E35; LMFBR). 480027
- Dynamic simulation of LMFBR plant under natural circulation. (C52, E35). 487394
- Heat transfer, sodium boiling and fuel pin integrity after a severe

- LMFBR piping failure. (C52, E35, E11). 469912
- LMFBR fuel analysis. Task A: oxide fuel dynamics. Final report, October 1977 - September 1978. (C52, E35). 487461
- Multichannel model for relocation of molten fuel cladding in unprotected loss-of-flow accidents in liquid-metal fast breeder reactors. (C52, E35). 461228
- magnetic fields**
- Improvement of liquid-metal fast breeder reactor characteristics by applying a magnetic field. (E35). 480705
- mathematical models**
- System modeling for transient analysis of loop-type liquid-metal-cooled fast breeder reactors. (E35). 488149
- maximum credible accident**
- Comparative analysis of a hypothetical coolant loss accident in an LMFB reactor with the use of various calculation models for a common reference problem. (E35). 495023
- mechanical vibrations**
- Surveillance of the vibrational behaviour of primary-circuit components. (E32, E35). 477226
- meetings**
- Proceedings of the workshop on institutional alternatives for LMFBR development and commercialization held at the Mitre Corporation in McLean, Virginia on September 8 and 9, 1976. Final report. (E35). 480701
- meltdown**
- Accident progression for a loss of heat sink with scram in a LMFB. (C52, E35). 461175
- Analysis of a prototype and a simulant-experiment related to freezing in flow channels. (C52, E35; LMFB). 487493
- Applicability of microwave heating to the simulation of the LMFB meltdown process. (C52, E35). 480111
- Assessment of the loss-of-heat-sink accident with scram in the LMFB. (C52, E35). 461174
- Boilup threshold for the bottled-up transition phase pool. (C52, E35; LMFB). 487529
- Comparison of measured and calculated average void fraction in volume-boiling pools with inclined boundaries. (C52, E35; LMFB). 480068
- Cooling of particulate debris beds: analysis of the initial D-series experiments. (C52, E35; LMFB). 461281
- Critical experimental study of integral physics parameters in simulated LMFB meltdown cores. (C52, E35). 461178
- Evaluation of stochastic void models for bubble worth calculations. (C52, E35). 491207
- Experimental study of hydrogen jet ignition and jet extinguishment. (C52, E35; LMFB). 487610
- Heat transfer characteristics of a non-boiling pool with spatially uniform gas injection. (C52, E35; LMFB). 473227
- Influence of gas generation on high-temperature melt/concrete interactions. (C52, E31, E32, E35, B15; BWR; PWR; LMFB). 469951
- LMFBR fuel analysis. Task B. Post-accident heat removal. Final report, October 1977 - November 1978. (C52, E35). 487438
- Microwave heating simulations of fission energy generation in volume-boiling pool systems. (C52, E35). 480110
- Natural convection heat transfer in beds of inductively heated particles. (C52, E35; LMFB). 469954
- One-dimensional model for transient boilup of volume-heated pools for LMFB transition phase analysis. (C52, E35). 491144
- Postaccident heat removal: debris-bed experiments D-2 and D-3. (C52, E35; LMFB). 461280
- Study of thermal and hydrodynamic processes associated with melting of horizontal substrate. (C52). 494441
- Volume-heated boiling pool flow behavior and application to transition phase accident conditions. (C52, E35; LMFB). 461210
- neutron absorbers**
- Fast reactor neutron absorber materials. (E24, E35; EuB₆; BaC; Eu₂O₃). 494921
- neutron flux**
- A neutron flux measuring device. (E35; liquid sodium cooled reactors). 491997
- neutron spectra**
- Analysis of exposure dependent heterogeneous FBR spectra using continuous slowing down-integral transport concepts. (E35, A31). 488115
- SPECTRA-IV, benchmark spectra based on LIB-IV. (E35). 495005
- neutron transport**
- Nodal method for fast reactor analysis. (E35). 492012
- nuclear fuels**
- Neutronic considerations in the design of a fuel pin for a fast power reactor. (E35). 480697
- one-dimensional calculations**
- Power flattening by enrichment zoning in a fast power reactor. (E35). 480696
- performance**
- Performance characteristics of homogeneous versus heterogeneous liquid-metal fast breeder reactors. (E35). 488117
- physical radiation effects**
- Thermal analysis of an in-reactor LMFB irradiation creep experiment. (E17, E35). 491695
- pipes**
- Crack propagation investigation related to the leak-before-break concept for LMFB piping. (E35). 482787
- Pipes in steel or special materials for nuclear boilers. (E32, E35). 473888
- planning**
- Breeder - now or never. (E35, E31, E32; USA). 470762
- pool boiling**
- BOPSI - a model for the theoretical description of the behaviour of boiling fuel-steel arrays sealed off on all sides. (E35, C52). 482788
- power distribution**
- Power flattening by enrichment zoning in a fast power reactor. (E35). 480696
- pressure gages**
- Pressure sensor for high-temperature liquids. (E35; Patent; LMFB). 473957
- pressure vessels**
- Improvement to structures containing a hot liquid metal in breeder reactors. (E35). 491963
- Nuclear reactor. (E35; liquid sodium cooled reactor). 491992
- primary coolant circuits**
- Intercomparison of auto- and cross-power spectral density surveillance systems for sodium boiling detection in fast reactors. (E35). 473953
- Mechanism of release of radioactive products into liquid-metal coolants, their transport within the circuits and removal from LMFBs. (E34). [Data]. 494971
- Method for pre-heating lmfb type reactors. (E35). 477297
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part V: heat transport systems. Final report. (E35). 494996
- Radionuclide trap for liquid metal cooled reactors. (E35). 461779
- Reactor cooling system. (E35). 491987
- Single-phase sodium pump model for LMFB thermal-hydraulic analysis. (E35). 488155
- Sodium component reliability data collection at CREDO. (E35; LMFB). 491961
- Study on the tritium removal from the sodium in LMFB. (E35). 480686
- radioactive aerosols**
- The influence of physico-chemical form on the consequences of hypothetical accidental releases from FBRs. (C52, E35, B12). 463371
- radioactive waste disposal**
- Burning actinides in very hard spectrum reactors. (E21, E52). 470502
- reactor accidents**
- Aerosol measurements and modeling for fast reactor safety. Annual report for FY 1978. (C52, E35). 487486
- Combustion of large sodium pools. (C52, E35). 491204
- Experimental investigation of aerosol behavior in a post-LMFB accident reactor containment atmosphere. (C52, E35). 487606
- Experimental investigation of aerosol behavior in a post-LMFB accident reactor containment atmosphere. Annual report Sep 1977 - Jan 1978. (C52, E35). 466338
- FCI potential of oxide and carbide fuels: results of the prompt burst series at Sandia Laboratories. (C52, E35; LMFB). 473281
- Flow dynamics of volume-heated boiling pools. (C52, E35). 487488
- Nucleation and capture of condensable airborne contaminants in an aqueous scrubbing system. (C52, E35, C54; LMFB). 469950
- Phenomena and scenarios related to a loss-of-heat-sink accident (with scram) in an LMFB. (C52, E35). 491117
- Procedure for the use of probabilistic risk assessments to establish ranking of research and development goals. (C52, E35, E36). 480158
- SACRD: a data base for fast reactor safety computer codes, general description. (C52, E35). 463369
- Sodium oxide/hydroxide aerosol properties and behavior in a large vessel. (C52, E35). 480076
- reactor charging machines**
- Double arm handling device for nuclear reactor. (E35; liquid sodium cooled reactor). 491956
- Equipment for FBR type reactor. (E35). 470768
- reactor components**
- COMCAN II-A: a computer program for automated common cause failure analysis. (C52, E35; LMFB). 487563
- COMMX-1: a three-dimensional transient single-phase component computer program for thermal-hydraulic analysis. (E35; LMFB). 480703
- Experimental evaluation of cell liners. (E35; LMFB). 480714
- Experimental parameter investigations on the tribological behavior of Stellite 6 in liquid sodium. (E35, B15). 470774
- Horizontal baffle for nuclear reactors. (E35). 480713
- Influence of scale size and fluid thermal properties in simulating LMFB outlet plenum behavior. (E35). 480699
- Large pool LMFB design. Executive summary. (E35). 470773
- Overview of US efforts to validate analysis methods and design criteria. (E35). 491964
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part XII: balance of plant - plant description. Final report. (E35). 494978
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part XIII: balance of plant - evaluation of pool-related areas. Final report. (E35). 494980
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part IX: constructability and fabricability; Part X: maintainability and inspectability; Part XI: safety. Final report. (E35). 494998
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part III: reactor assembly, Sec. 2-6 - Appendix IIIB. Final report. (E35). 494994
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part II: plant summary description. Final report. (E35). 494992
- Pool-type LMFB plant 1000 MWe Phase A-Extension-2 design. Part III: reactor assembly, Sec. 1 - 2.5. Final report. (E35). 494993
- Probabilistic methods for LMFB application. (E35). 491967
- Sodium component reliability data collection at CREDO. (E35; LMFB). 491961
- Sodium - NaK engineering handbook. Volume IV. Sodium pumps, valves, piping, and auxiliary equipment. (E35, B20; Book). 466724

| | |
|---|--------|
| reactor control systems | |
| A nuclear reactor equipped with a control mechanism. (E35; LMFBR type reactor). | 463676 |
| reactor cooling systems | |
| Liquid metal cooled reactor and process for protecting the channels against a blocking. (E35). | 492014 |
| Liquid metal cooled fast breeder nuclear reactors. (E35). | 494987 |
| Pipe support. (E35; Patent). | 488162 |
| Predictive technique for temperature and eddy diffusivity distributions in liquid metal turbulent pipe flow. (E35). | 480690 |
| Process and device for thermal energy production. (E35; liquid metal cooled reactors). | 484986 |
| Technique for detecting liquid metal leaks. (E35; Patent). | 488119 |
| Use of temperature variance to detect sodium boiling. (E35). | 491998 |
| reactor core disruption | |
| Analysis of aerosol particles undergoing gravitational agglomeration. Annual progress report, October 1, 1977 - September 30, 1978. (C52, E35; LMFBR). | 487525 |
| Analysis of hypothetical LMFBR whole-core accidents in the USA. (C52, E35). | 473224 |
| Analysis of nonlinear fluid structure interaction transient in fast reactors. (C52, E35). | 480163 |
| Analysis of the heat and mass transfer processes of a UO_2 bubble in sodium for the Fuel Aerosol Simulant Test (FAST). (C52, E35; LMFBR). | 487589 |
| Analysis of the heat and mass transfer processes of a UO_2 bubble in sodium for the Fuel Aerosol Simulant Test (FAST). (C52, E35; LMFBR). | 491203 |
| Analysis of TREAT Tests L7 and L8 with SAS3D, LEVITATE and PLUTO2. (C52, E35; LMFBR). | 480027 |
| Application of acoustic agglomerators for emergency use in liquid-metal fast breeder reactor plants. (C52, E35). | 491198 |
| Approximate inversion method for five point difference matrix equations. (C52, E35; LMFBR). | 473272 |
| Attenuation of particles through leak paths. (C52, E35). | 480120 |
| Bubble behavior in LMFBR core disruptive accidents. Annual report, October 1977 - September 1978. (C52, E35). | 476689 |
| Bubble worth variation in molten cores from a hypothetical core disruptive accident. (C52, E35; LMFBR). | 473239 |
| Comparison of FISGAS swelling and gas release predictions with experiment. (C52, E35). | 480122 |
| Comparison of measured and calculated average void fraction in volume-boiling pools with inclined boundaries. (C52, E35; LMFBR). | 480068 |
| Comparison of the HAARM-3 fallout model with Nuclear Safety Pilot Plant (NSPP) data. (C52, E35; LMFBR). | 491150 |
| Crab user's manual. (C52, E35). | 494413 |
| Development of a probabilistic model of containment conditions following a core disruption accident in a breeder reactor. (C52, E35). | 487550 |
| Fast integral modeling of hypothetical core disruptive accidents in liquid-metal fast breeder reactors. (C52, E35). | 461256 |
| Fuel and coolant motions following pin failure: EPIC models and the PBE-S5 experiment. (C52, E35; LMFBR). | 480061 |
| Heat and mass transport processes of a horizontal melting or decomposing layer under a molten pool. (C52, E32, E35, B15; BWR; PWR; LMFBR). | 469893 |
| Heat transfer and fluid flow aspects of fuel-coolant interactions. (C52, E35; LMFBR). | 482212 |
| Liquid-liquid contact in vapor explosion. (C52, E35; LMFBR). | 473262 |
| Measurement and analysis of drag in multiphase flow systems. (C52, E35; LMFBR). | 473255 |
| Measurement and analysis of transient vaporization in oxide fuel materials. (C52, E35, B22; LMFBR). | 461212 |
| Multiphase transients with coolant and core materials in LMFBR core disruptive accident energetics evaluations. Technical report. (C52, E35). | 469971 |
| Neutronic analysis of LMFBRs during severe core disruptive accidents. (C52, E35). | 461309 |
| Numerical method of the aerosol behavior reference code, CRAB. (C52, E35; LMFBR). | 487510 |
| Postaccident heat removal: debris-bed experiments D-2 and D-3. (C52, E35; LMFBR). | 461280 |
| Role of distributed microscopic physical phenomena in probabilistic accident analysis with deterministic codes. (C52, E35). | 487393 |
| Sensitivity analysis of the HAARM-3 code. (C52, E35; LMFBR aerosol agglomeration). | 461241 |
| SIMMER analysis of SRI high pressure bubble expansion experiments. (C52, E35; LMFBR). | 473254 |
| SIMMER-II code and its applications. (C52, E35; LMFBR). | 494436 |
| Summary of treat experiments on oxide core-disruptive accidents. (C52, E35, E36; LMFBR). | 473220 |
| VENUS-III two-dimensional multi-component thermal hydraulic techniques. (C52, E35). | 491210 |
| 1978 annual report: aerosol characterization from a simulated HCDA. (C52). | 480172 |
| reactor core restraints | |
| A liquid metal cooled reactor provided with a system limiting the core displacement with respect to control rods. (E35). | 473986 |
| Liquid metal cooled reactor provided with a system limiting the core displacement with respect to control rods. (E35). | 473987 |
| Magnetic nuclear core restraint and control. (E35; Patent; LMFBR). | 488133 |
| Nuclear core positioning system. (E35; Patent; LMFBR). | 461760 |
| reactor cores | |
| Heterogeneous cores for LMFBR improves breeding. (E35). | 463664 |
| Measurements of subassembly and core temperature distributions in an LMFBR. (C52, E35, E36). | 480149 |
| Nuclear performance of liquid-metal fast breeder reactors designed to preclude energetic hypothetical core disruptive accidents. (E35). | 488116 |
| Nuclear reactor. (E35; Patent; LMFBR). | 480709 |
| Physics performances of a heterogeneous fast reactor core concept studied in MASURCA. (E35). | 488123 |
| Reactor. (E35; reactor core constituents support system). | 477293 |
| reactor fueling | |
| Liquid metal cooled fast breeder nuclear reactors. (E35). | 482793 |
| Loading error simulations and control worth measurements in a ZPPR critical assembly of heterogeneous configuration. (C52, E35). | 487526 |
| System for charging and discharging the fuel of a nuclear reactor. (E35; LMFBR type reactors). | 491957 |
| reactor instrumentation | |
| Intercomparison of auto- and cross-power spectral density surveillance systems for sodium boiling detection in fast reactors. (E35). | 473953 |
| Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part XII: balance of plant - plant description. Final report. (E35). | 494978 |
| Pool-type LMFBR Plant 1000 MWe phase a-extension-1 design. Part I. Executive summary. Interim report. (E35). | 461761 |
| reactor kinetics | |
| Critical experimental study of integral physics parameters in simulated LMFBR meltdown cores. (C52, E35). | 461178 |
| Influence of fission spectra uncertainties on calculated fast reactor parameters. (E35). | 491995 |
| Nuclear performance of liquid-metal fast breeder reactors designed to preclude energetic hypothetical core disruptive accidents. (E35). | 488116 |
| Physics studies of a heterogeneous liquid-metal fast breeder reactor. (E35). | 488153 |
| Reactor physics parameters of alternate fueled FBR core designs. (E35). | 480685 |
| Reactor physics parameters of alternate fueled fast breeder reactor core designs. (E35). | 470750 |
| SPECTRA-IV, benchmark spectra based on LIB-IV. (E35). | 495005 |
| reactor licensing | |
| Probabilistic methods in reactor licensing. (C52, F22, E32, E35). | 487587 |
| reactor maintenance | |
| Design of sodium cooled reactor systems and components for maintainability. (E35). | 461750 |
| Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part IX: constructability and fabricability; Part X: maintainability and inspectability; Part XI: safety. Final report. (E35). | 494998 |
| reactor materials | |
| Benchmark tests of JENDL-1 for structural materials. (E35, A31). | 495014 |
| [Data] Liquid metal fast breeder reactor structural materials design considerations. (E35). | 491982 |
| Low cycle fatigue behavior of Types 304 and 316 stainless steel tested in sodium at 550°C. (E35, B22). | 461789 |
| Measurement and analysis of transient vaporization in oxide fuel materials. (C52, E35, B22; LMFBR). | 461212 |
| Measurements and calculations of integral capture cross-sections of structural materials in fast reactor spectra. (E35, A31). [Data] | 495024 |
| Multiaxial creep equations for nonlinear and volume-nonconservative in-reactor creep. (E35, B25; LMFBR). | 488142 |
| Resistance welding of pressurized capsules for in-pile creep experiments. (B21, E35, E42). | 460659 |
| Sodium-NaK engineering handbook. Volume IV. Sodium pumps, valves, piping, and auxiliary equipment. (E35, B20; Book). | 466724 |
| Strength properties of concrete at elevated temperatures. (B24, E35). | 469399 |
| Transient heat transfer in concrete. (E35; LMFBR). | 461742 |
| reactor operation | |
| Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part II: plant summary description. Final report. (E35). | 494992 |
| reactor physics | |
| Benchmark calculations for a fast sodium-cooled breeder reactor according to the method of finite elements. (E21). | 466583 |
| reactor protection systems | |
| Probabilistic approaches to advanced reactor design optimization. (C52, E35). | 480031 |
| reactor safety | |
| Annual technical progress report: reactor safety, Government fiscal year 1978. (C52, E35). | 480017 |
| Application of probabilistic methods to safety R and D and design choices. (C52, E35; LMFBR). | 480062 |
| Experimental and theoretical studies on the pressure build-up of core materials in hypothetical accidents. (E35). | 461744 |
| Experimental studies on local cooling perturbations. (E35, C52). | 461766 |
| In-pile investigation of local cooling perturbations (Mol 7C). (E35, C52). | 461771 |
| Physics of reactor safety. Quarterly report, October-December 1978. (C52, E35; LMFBR). | 491114 |
| Results of the in-pile experimental program SCARABEE. (E35). | 461747 |
| Risk allocation approach to reactor safety design and evaluation. (C52, E35). | 487489 |
| Role of reliability and risk assessment in LMFBR design: implementation of reliability in LMFBR design. (C52, E35). | 480066 |
| SACRD: a data base for fast reactor safety computer codes, contents and glossary of Version 1 of the system. (C52, E35). | 461214 |
| State-of-the-art review of sodium fire analysis and current notions | |

- for improvements. (C52, E35). 461303
 Study of sodium boiling during a power transient in a heating duct. Investigation carried out within the scope of a study on the safety of fast neutron reactors. (C52). [Data] 491196
 Theoretical investigations of fuel-coolant interaction. (E35). 461749
 Use of quantitative risk and probabilistic safety criteria in the conceptual design of a large pool-type LMFBR. (C52, E35). 487498
- Validation of the computer code ARES for calculating the tank load under overpower conditions. (E35, C51). 461777
- reactor safety experiments**
 Acoustics of the Sodium Loop Safety Facility P2 experiment. (C52, E35; DOE). 466271
- reactor safety fuses**
 Fuse applied to designing a scram device for nuclear reactor. (E35; LMFBR type reactor). 470770
 Self-actuated shutdown system for a commercial size LMFBR. Final report. (E24, E35). 470583
- reactor vessels**
 Core disruptive accident margin seal. (C52, E35; Patent). 487490
 Liquid metal cooled nuclear reactor. (E35). 473988
 Liquid metal cooled fast breeder reactor. (E35). 466721
 Nuclear reactor pressure vessel support system. (E35; Patent; LMFBR). 488165
 Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part III: reactor assembly, Sec. 1-2.5. Final report. (E35). 494993
 Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part IV: reactor deck. Final report. (E35). 494995
 Study of structural attachments of a pool type LMFBR vessel through seismic analysis of a simplified three dimensional finite element model. (E35). 494973
 Transient heat transfer in concrete. (E35; LMFBR). 461742
- remote handling equipment**
 Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part VI: auxiliary systems; Part VII: plant control and instrumentation; Part VIII: seismic analysis. Final report. (E35). 494997
- research programs**
 Breeder reactor program in the USA. (E35). 473950
 Fast breeder reactor development program in France. (E35). 473984
 Outlook of the fast breeder reactor development in U.S.S.R. (E35). 470756
 Status summary report advanced reactor safety research. Buff book 2. (E35; USA; LMFBR). 466730
- scram**
 Fast shutdown device for a nuclear reactor. (E24, E35). 466638
- scram rods**
 Scram device having a multiplicity of neutron absorbing masses. (E24, E35; Patent; LMFBR). 480609
- seals**
 Core disruptive accident margin seal. (E35; Patent; LMFBR). 488138
 Ultrasonic dip seal maintenance system. (E35; Patent; LMFBR). 488161
- shielding**
 Physics problems of fast reactor shielding. (E35). [Data] 484982
 Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part XII: balance of plant - plant description. Final report. (E35). 494978
- shields**
 Method of shielding a liquid-metal-cooled reactor. (E35; Patent). 492010
 Packed rod neutron shield for fast nuclear reactors. (E35; Patent; LMFBR). 488134
- shrouds**
 Remote examination of shroud tubes in LMFBR fuel elements. (E35). 470758
- sodium**
 Sodium mists behavior in cover gas space of an LMFBR. (E35). 491980
 Sodium vapor deposition on a simulated model of an LMFBR rotating shield plug annulus, (2). (E35). 491979
 Sodium vapor deposition on a simulated model of an LMFBR rotating shield plug annulus, (1). (E35). 482792
- sodium cooled reactors**
 Heat transfer effect of entrained gas in liquid sodium systems. (E35). 461743
- specifications**
 Advanced liquid metal fast breeder reactor designs. (E35). 473985
 Further examination of the pool type 1000 MWe LMFBR. Volume 2. Examination of NSSS concepts. Interim report. (E35). 477274
 Further examination of the pool type 1000 MWe LMFBR. Volume 3. Examination of NSSS concepts (continued). Interim report. (E35). 477275
 Further examination of the pool type 1000 MWe LMFBR. Volume 1. Executive summary. (E35). 477283
 Further examination of the pool type 1000 MWe LMFBR. Volume 4. Examination of balance of plant. Interim report. (E35). 477277
 Large pool LMFBR design. Volume 4. Balance of plant. Final report. (E35). 466735
 Materials technology for LMFBR steam generators. (B22, E35). 490562
 Pool-type LMFBR plant 1000 MWe Phase A-extension-2 design. Part I: executive summary. Final report. (E35). 491974
 Pool-type LMFBR plant 1000 MWe Phase A-Extension-2 design. Part XII: appendices. Final report. (E35). 494979
 Proposal for a decision by the council on the determination of a research programme of the European Atomic Community in the field of codes and standards of fast reactors (structural integrity of components). (E35). 466720
- Use of quantitative risk and probabilistic safety criteria in the conceptual design of a large pool-type LMFBR. (C52, E35). 487498
- steam**
 Pool-type LMFBR Plant 1000 MWe phase a-extension-1 design. Part I. Executive summary. Interim report. (E35). 461761
- steam generators**
 Analysis of the U.S. large leak test program Series I sodium-water reaction test results. (E35; LMFBR). 492009
 Characteristics of transition boiling in sodium-heated steam generator tubes. (E35). 491970
 Constant extension rate testing for LMFBR steam generator applications. (E35, B15). 488145
 Corrosion behaviour of iron-chromium alloys used as boiler tube materials in fast reactor steam generators. (B15, E35). 460627
 Corrosion of 2 1/4 Cr-1Mo steel under superheat transfer conditions. (B15, E35). 460618
 Fluidized bed steam generator. (E35). 470739
 Full scale tests and thermal design correlation for coiled once-through steam generators. (E35). 480677
 Heavy section steel technology (HSST) program. (B22, B25). 490566
 Materials technology for LMFBR steam generators. (B22, E35). 490562
 Mechanical properties of transition joint materials in support of LMFBR steam generator design. (B22, E35). 460694
 Method of safe operation of LMFBR type reactor. (E35). 491990
 Safety appliance for a steam generator heated by liquid metal. (E35). 477292
 Stress corrosion studies for 2 1/4Cr1Mo steel. (B15, E35). 460622
 Thermohydraulics of steam generators. (E32, E35). [Data] 491893
 Transition joint welding development for LMFBR steam generators. (B21, E35). 460669
 Tritium permeation through Fe-2 1/4 Cr-1 Mo steam generator material. (B22, E35). 472673
 Ultrasonic inspection for wastage in the LMFBR steam generator due to sodium-water reactions. (E35). 470764
 Weldability and joint properties of advanced carbon stabilized 2.25Cr-1Mo steel for LMFBR. (B21, E35). 460678
- temperature coefficient**
 Method and equipment for the performance reduction of a nuclear reactor during temperature increase. (E35). 473996
- temperature control**
 Method and equipment for the performance reduction of a nuclear reactor during temperature increase. (E35). 473996
- thermal insulation**
 Nuclear reactor insulation and preheat system. (E35; Patent). 473994
- thermal shields**
 Process and device of thermal shielding of the vessel of a nuclear reactor. (E35; LMFBR type reactor, cover gas). 470746
- thorium cycle**
 Performance of thorium-fueled fast breeders. (E35). 470761
 Reactor physics parameters of alternate fueled FBR core designs. (E35). 480685
 Reactor physics parameters of alternate fueled fast breeder reactor core designs. (E35). 470750
 Thorium fuel cycle: a nuclear strategy and fuel recycle technology. (F12, E31, E32, E35, E33). 462003
- transient overpower accidents**
 Analysis of internal fuel motion during PINEX-2 experiment. (C52, E35). 491182
 Analysis of TREAT transient overpower experiments using the PLUTO2 codes. (C52, E35; LMFBR). 487609
 FRESS pin failure model and its application to E-8 TREAT test. (C52, E35). 487512
 Fuel pins and core response under LMFBR top accident conditions. (C52, E35). 482244
 LMFBR fuel analysis. Task A: oxide fuel dynamics. Final report, October 1977 - September 1978. (C52, E35). 487461
 MELT-IIIb: an updated version of the melt code. (C52, E35; LMFBR). 482239
 Pin failure modeling of the A series CABRI tests. (C52, E35). 482247
- transients**
 Application of multiple timestep integration method in SSC. (C52, E35). 487492
 EPRI-CURL dynamic analysis of loop type LMFBRs. Final report. (C52, E35). 494398
 LMFBR safety and sodium boiling. (C52, E35). 461221
 Users' manual for the SSC-L code. (C52, E35; LMFBR). 473196
 Whole-core thermal-hydraulic transient code development and verification for LMFBR analysis. (C52, E35). 480151
- tritium**
 Control of tritium in liquid-metal-cooled fast breeder reactors (LMFBRs). (E35). 463681
- two-phase flow**
 A numerical method for a transient two-fluid model. (E11). 470299
- welded joints**
 Ultrasonic techniques for in-service inspection of austenitic stainless steel welds at 200°C. (E35, E42, E17). 473972
- LOAD MANAGEMENT:**
 (Management of electric power demands on a distribution grid to achieve maximum power-production efficiency.)
 Control and monitoring during load-follow in a modern pressurized water reactor. (E32, E24). 477233
- LOADING (REACTOR):**
 See REACTOR FUELING
- LOADING MACHINES (REACTOR):**
 See REACTOR CHARGING MACHINES

LOCAL BOILING:See *SUBCOOLED BOILING***LOCAL FALLOUT:****leukemia**

Evidence of a possible association between childhood leukaemia and fallout from nuclear testing. (C21). 479935

quantitative chemical analysis

Radioactive fallout in air and rain: results to end of 1978. (B33). [Data] 481952

LOCAL GALAXY:See *MILKY WAY***LOCAL GROUP:**See *GALAXIES***LOCAL IRRADIATION:****preventive medicine**Preventive central nervous system irradiation in children with acute nonlymphocytic leukemia. (C15; Complications of γ radiation). 469690**LOCAL RADIATION EFFECTS:**See also *OSTEORADIONECROSIS; RADIODERMATITIS***cell nuclei**Microdosimetry of ^{125}I and ^3H in the cell nucleus. (C11). 460951**children**

Comparison of the incidence and time patterns of radiation-induced skin cancer in humans and rats. (C15). 482058

dna

Comparison of alkali-labile sites in DNA caused by gamma-irradiation and by depurination. (C11). 465911

LOCALIZATION (BIOLOGICAL):See *BIOLOGICAL LOCALIZATION***LOCKS (SECURITY):**See *PHYSICAL PROTECTION DEVICES***LOFT REACTOR:**

Control system for selectively inhibiting protection system functions in a research pressurized water reactor. (E32, E38). 466693

LOFT drag-disc turbine transducer shroud and cover weld analysis and evaluation. (E36). 461799

LOFT drag-disc turbine transducer shroud and cover weld. (E36). 461800

Proving that emergency cooling works. (E32). 470653

after-heat

Study on the similarity between LOFT decay heat and LPWR decay heat. (C52, E36, E32). 469970

air samplers

LOFT CIS analysis: 1"-SSS-3-E inside containment penetration S-11C. (E36). 492033

auxiliary water systems

LOFT CIS analysis: 1"-PCC-76-A inside containment penetration S-1A. Internal technical report. (E36). 488196

bearings

Long-term bearing wear tests of conventional journal bearings and development of hydrostatic bearings for the LOFT drag-disc turbine transducer. (E36, E32). 488183

blowdown

LOFT blowdown experiment safety analysis methodology. (C52, E36). 480126

containment buildings

Recalculation of loads on LOFT penetrations 1A, 2A, 3E, 3F, 5A, 5B, 5C, 5D, 5E, 5F, 7A, 9A, 11C, 17A, 17B, 20A, 20B, 20C, 21A. (E36). 488190

containment systems

Inhalation dosage determination resulting from BST failure and from release directly to the LOFT containment following L2-3 blowdown. (C52, E36). 494433

LOFT CIS analysis S-11A penetration 12"-H and V duct. (E36). 488175

LOFT CIS analysis S-5B penetration 3" IA-296-AB. (E36). 488177

LOFT CIS analysis penetration S-7A 8" WW - 172-AB. (E36). 488176

LOFT CIS analysis 8"-WW-172-AB inside penetration S-7A. (E36). 488181

LOFT cis analysis 4"-WH-237-E outside containment penetration S-17B. (E36). 480733

LOFT CIS Analysis Line 2 inches-IA-298-AB outside containment penetration S-2A. (E36). 470790

Refined analysis of effects on the LOFT containment building resulting from main steam and feedwater breaks. (C52, E36). 487538

control rod drives

LOFT CRDM vent orifices. (E24, E36). 491798

coolant cleanup systems

LOFT primary coolant addition and Control Piping System stress analysis. (E36). 492031

data acquisition systems

LOFT Test Support Facility Data Acquisition System description. (E36). 470785

densimeters

Transient thermal analysis of the LOFT ultrasonic density detector during a LOCE transient. (E36). 461807

Ultrasonic density detector for vessel and reactor core two-phase flow measurements. (E36). 492019

densitometers

LOFT advanced densitometer for nuclear loss-of-coolant experiments. (E36). 474005

Neutron shielding requirements for the loft densitometers. (E36). 474011

Reactor vessel and core two-phase flow ultrasonic densitometer. (E36). 495035

Theoretical basis of data analysis procedures for LOFT radiation: hardened gamma densitometer. (E36). 480730

Thermal analysis of gamma densitometer mounts. (E36). 488205

Ultrasonic density detector air-water flow test. (E36). 473997

ecs

Core-power and decay-time limits for disabled automatic-actuation of LOFT ECCS. (C52, E36). 469917

LOFT emergency core coolant facility piping review. (C52, E36). 469938

Setpoints for LOCE control timer settings and L2-2 specific calculations. (E36). 461803

Stress analysis of loft (ECC) system; left side. (E36). 470780

Stress analysis of LOFT Emergency Core Coolant System modification (left and right side). (E36). 470779

flowmeters

Design and performance of the drag-disc turbine transducer. (E36). 492020

Experiment data report for DTT rake test in the FAST facility. (E36). 492023

LOFT experimental measurements uncertainty analyses. Volume XIV. LOFT drag disc: turbine transducer uncertainty analysis. (E36). 470797

Long-term bearing wear tests of conventional journal bearings and development of hydrostatic bearings for the LOFT drag-disc turbine transducer. (E36, E32). 488183

Performance of a LOFT drag-disc turbine transducer and gamma densitometer under transient two-phase blowdown conditions. (E36, E42). 488193

fluid poison control

Primary system boron dilution analysis. (E36). 492024

fuel assemblies

LOFT fuel module structural response during loss-of-coolant experiments. (C52, E36). 487569

fuel cans

LOFT cladding surface thermocouple calibration test results for stainless steel clad rod RRF-A-88107. (E36). 466738

Postirradiation metallurgical techniques to estimate LOFT peak cladding temperatures. (C52, E36). 487545

fuel channels

LOFT calibration tube thermal expansion analysis. (E36). 488206

fuel element clusters

LOFT reactor advanced instrumented center fuel bundle. (E36). 480725

fuel elements

LOFT fuel design and operating experience. (E36). 480738

LOFT instrumented fuel design and operating experience. (E36). 488201

PBR/LOFT Lead Rod Test Program experiment operating specification. (C52, E32, E36; PWR). 466336

fuel rods

Best-estimate fuel rod modeling techniques. (E36). 466744

LOFT advanced fuel rod instrumentation development. Midyear review. (E36). 488202

LOFT nuclear fuel rod behavior. (E36). 480734

Nuclear fuel rod behavior during LOFT experiment L2-2. (E36). 488208

hydraulics

Computer program K-FIX/MOD1: a modification of the computer program K-FIX for applications to fluid flow simulation in LOFT system piping. (E36). 480722

in core instruments

LOFT advanced fuel rod instrumentation development. Midyear review. (E36). 488202

LOFT calibration tube thermal expansion analysis. (E36). 488206

in-service inspection

Identification of postulated pipe rupture locations for which in-service inspection is prescribed. (E36). 488203

level indicators

LOFT liquid level transducer application techniques and measurement uncertainty. (E36). 488178

loss of coolant

Best estimate experiment predictions for LOFT nuclear experiments L2-2, L2-3, and L2-4. (C52, E36). 461215

Considerations of scaling effects in the LOFT reactor system during a large break LOCA simulation. (C52, E36, E32). 480094

Investigation of two-phase flow regimes in LOFT piping during loss-of-coolant experiments. (C52, E36). 491187

LOFT fuel module structural response during loss-of-coolant experiments. (C52, E36). 487569

LOFT L2-3 blowdown experiment safety analyses D, E, and G; LOCA analyses H, K, K1. (C52, E36). 461270

LOFT nuclear fuel rod behavior. (E36). 480734

L2-3 ESA CF and LOCA Analysis K calculations. (C52, E36). 461287

Multidimensional analysis of fluid flow in the loft cold leg blowdown pipe during a loss-of-coolant experiment. (C52, E36). 487459

Multidimensional analysis based on a two-fluid model of fluid flow in a component of the LOFT system during a loss of coolant experiment. (C52, E36). 476686

Postirradiation metallurgical techniques to estimate LOFT peak cladding temperatures. (C52, E36). 487545

Study on the similarity between LOFT decay heat and LPWR decay heat. (C52, E36, E32). 469970

off-gas systems

Thermal analysis of LOFT waste gas processing system nitrogen supply for process line purge and blower seal. (E36). 488207

performance testing

LOFT acceptance test results. (E36). 470792

Third United States National Congress on pressure vessels and piping LOFT power range testing program. (E36). 480737

- pipes**
 Identification of postulated pipe rupture locations for which in-service inspection is prescribed. (E36). 488203
 LOFT CIS analysis - 1" IG-I-58-B inside containment penetration S-9A. (E36). 488197
 LOFT CIS analysis 4"-WH-237-E inside containment penetration S-17B. (E36). 495043
 LOFT cis analysis 4"-WH-237-E outside containment penetration S-17B. (E36). 480733
- primary coolant circuits**
 Computer program K-FIX/MOD1: a modification of the computer program K-FIX for applications to fluid flow simulation in LOFT system piping. (E36). 480722
 Investigation of two-phase flow regimes in LOFT piping during loss-of-coolant experiments. (C52, E36). 491187
 LOFT primary coolant addition and Control Piping System stress analysis. (E36). 492031
 Primary system boron dilution analysis. (E36). 492024
- radioactive effluents**
 Inhalation dosage determination resulting from BST failure and from release directly to the LOFT containment following L2-3 blowdown. (C52, E36). 494433
- radioactive waste facilities**
 LOFT CIS analysis 4"-WH-237-E inside containment penetration S-17B. (E36). 495043
- reactor accidents**
 L2-1/L2-2 pre-LOCE operation hybrid analysis. (C52, E36). 487596
- reactor components**
 Failure mode effect and consequence analysis for LOFT's power ascension experiment "L2-2". (C52, E36). 461257
 Fatigue life of LOFT reactor vessel components. (E36). 461796
 LOFT acceptance test results. (E36). 470792
 Stress evaluation of the welded locking cups for the MDTT rake. (E36). 488184
- reactor cooling systems**
 Instability study for LOFT for L2-1, L2-2, and L2-3 pretest steady-state operating conditions. (E36). 466739
- reactor fueling**
 Initial core load report. (E36). 461790
- reactor instrumentation**
 Instrumentation for localized measurements in two-phase flow conditions. (E36, E42). 495042
 LOFT instrumentation setpoints. (E36). 461794
 Performance predictions for a large scale transient two-phase flow test facility. (E36). 488194
 Reactor vessel and core two-phase flow ultrasonic densitometer. (E36). 495035
 RELAP analysis of Wyle transient test system. (E36). 492032
 Stress analysis of ultrasonic density detector for LOFT core inlet steady-state and LOCE conditions. (E36). 488192
- reactor kinetics**
 Initial core load report. (E36). 461790
- reactor materials**
 Material compatibility tests for LOFT nuclear reactor fuel centerline thermocouples. (E36). 480719
- reactor operation**
 Fuel rod response during LOFT Test L2-2. (E36). 488195
 LOFT instrumented fuel design and operating experience. (E36). 488201
 LOFT isothermal and nuclear experiment results. (C52, E32, E36). 487522
 LOFT monthly progress report for April 1979. (E36). 492028
 LOFT: zero power/power range physics testing measurements versus calculations. (E36). 488185
 L2-3 pre-LOCE maneuver core safety analysis. (C52, E36). 491115
 Quick look report on LOFT nuclear experiment L2-2. (C52, E32, E36; PWR). 466276
- reactor protection systems**
 Capability of LOFT vital batteries to supply emergency power demands during severe cold weather conditions. (C52, E36). 461328
 Reliability and safety study of three proposed LOFT Plant Protection (Reactor Shutdown) System. (E36). 466740
- reactor safety**
 L2-1/L2-2 pre-LOCE operation hybrid analysis. (C52, E36). 487596
 L2-3 pre-LOCE maneuver core safety analysis. (C52, E36). 491115
 Power range testing core safety analysis. (E36). 488174
- reactor safety experiments**
 LOFT two-phase flow data integrity analysis. (C52, E36). 480065
 Pre-LOCE thermal safety analysis of the LOFT reactor L2-2 experiment. (C52). 480016
 Reflood heat transfer and carryover rate fraction correlations for LOFT evaluation model calculations. (E36). 474006
- reactor start-up**
 Third United States National Congress on pressure vessels and piping LOFT power range testing program. (E36). 480737
 Unique features of the LOFT startup program. (E36). 480718
- safety analysis**
 Lumped-parameter modeling of PWR downcomer and pressurizer for LOCA conditions. (C52). 461282
- secondary coolant circuits**
 Revised error analysis of LOFT secondary calorimetric power equation. (E36). 461805
- seismic effects**
 LOFT CIS analysis - 1" IG-I-58-B inside containment penetration S-9A. (E36). 488197
- specifications**
 Loss-of-fluid test (LOFT) facility. (E36). 488199
- steam lines**
 Refined analysis of effects on the LOFT containment building resulting from main steam and feedwater breaks. (C52, E36). 487538
- thermocouples**
 LOFT cladding surface thermocouple calibration test results for stainless steel clad rod RRF-A-88107. (E36). 466738
 Material compatibility tests for LOFT nuclear reactor fuel centerline thermocouples. (E36). 480719
- valves**
 LOFT pressurizer safety: relief valve reliability. (E36). 470776
- LOGIC CIRCUITS:**
drift chambers
 Logic electronic system of the coordinate wire chambers for the particle detection of prescribed momentum. (E41). 492173
fabrication
 Transistor and integrated circuit manufacture. (B25, E43). 460808
- LONG TERM IRRADIATION:**
See CHRONIC IRRADIATION
- LONG WAVE RADIATION:**
THEORY
 Theory of electromagnetic waves on auroral field lines. (B33). 476490
earth magnetosphere
 Electromagnetic plasma wave emissions from the auroral field lines. (B33). 476483
radiation detection
 Detection of 300 °K blackbody radiation with Rydberg atoms. (E41). 470872
- LONG-LENS SPECTROMETERS:**
See MAGNETIC LENS SPECTROMETERS
- LONG-RANGE INTERACTIONS:**
See INTERACTION RANGE
- LONGITUDINAL PINCH:**
See also BELT PINCH
compression
 Dynamics of a strongly radiating plasma in the non-cylindrical z-pinch. (A14). 489367
sausage instability
 Electromagnetic fields of sausage instabilities of the plasma pinch. (A14). 483417
- LONGITUDINAL PINCH DEVICES (LN:**
See LINEAR Z PINCH DEVICES
- LOOPS (COOLANT):**
See COOLANT LOOPS
- LOOPS (IN PILE):**
See IN PILE LOOPS
- LORENTZ FORCE:**
guns
 Magnetic propulsion railguns: their design and capabilities. (E13). 487850
- LORENTZ GAS:**
correlation functions
 Long-time correlation effects on displacement distributions. (A11). 467001
- LORENTZ INVARIANCE:**
 K^{sub}(S) decays and Lorentz invariance. (A21). 493047
measuring methods
 Concerning the equivalence of Lorentz's and Einstein's theories. (A11). 488573
- LORENTZ PLASMA:**
See LORENTZ GAS
- LORENTZ TRANSFORMATIONS:**
invariance principles
 Some further problems of the special theory of relativity related to motion at low velocities. (A11). 483126
laboratory system
 Transformations between inertial and rotating frames of reference. (A11). 488540
rotation
 Transformations between inertial and rotating frames of reference. (A11). 488540
- LOS ALAM. OMEGA WEST REACTOR:**
See OWR REACTOR
- LOS ALAMOS MESON PHYSICS FACIL:**
See LAMPF LINAC
- LOS ALAMOS SCIENTIFIC LAB:**
See LASL
- LOSS CONE INSTABILITY:**
absolute instabilities
 "Convective" loss-cone instability is absolute. (A14). 478046
convective instabilities
 "Convective" loss-cone instability is absolute. (A14). 478046
dispersion relations
 High-frequency convective loss-cone instability in short mirror machines. (A14). 489167
instability growth rates
 Warm plasma effects on drift cyclotron loss cone mode. (A14). 478138
- LOSS OF COOLANT:**
 Development of BNL Heat Transfer Facility 1: flashing experiments. (C52, E31, E32). 480100
 Nuclear fuel rod behavior during LOFT experiment L2-2. (C52, E32). 487592
 Steam generator tube rupture effects on a LOCA. (C52, E32). 480092
- after-heat**
 Nuclear data library of fission products for decay power calculation. (C52, E31, E32; BWR; PWR). 491202

- boiling detection**
Two-phase flow phenomena in nuclear reactor technology. (C52, E32; PWR). 469961
- cladding**
MABEL-1. A code to analyse cladding deformation in a loss-of-coolant accident. (E32). 463628
- computer calculations**
BWR loss-of-coolant accident analysis capability of the WRAP-EM system. (C52, E31). 480028
- computer codes**
User's guide for the BWR LOCA analysis capability of the WRAP-EM system. (C52, E31). 480022
- core spray systems**
Arrangement for the control of a breakdown in nuclear power plants. (C52). 480029
- critical flow**
Review of two-phase steam-water critical flow models with emphasis on thermal nonequilibrium. (C52, E31, E32, E11; BWR; PWR). 466327
- dryout**
The design of electrical heater pins to simulate transient dryout and post-dryout of water reactor fuel. (E32, E34). 482755
- entrainment**
Theoretical investigation of the influence of water entrainment factors in containment analyses. (E31, E32). 477196
- film boiling**
Low-flow film boiling heat transfer on vertical surfaces. I. Theoretical model. (C52, E11). 480013
- fission product release**
Fission product source terms for the LWR loss-of-coolant accident. (C52, E32). 461249
Fission product source terms for the LWR loss-of-coolant accident. (C52, E32). 461245
- flow models**
WWER steam generator transients during loss of coolant accidents. (C52). 463387
- fluid flow**
Scaling and constitutive relationships in downcomer modeling. (C52, E32). 480040
- fuel element clusters**
LOCA MK II. A program for calculating fuel and cladding temperatures in SGHWR following a loss-of-coolant accident. (E34). 463661
- fuel element failure**
Multirod Burst Test Program progress report, July - December 1978. (C52, E31, E32; BWR; PWR). 491133
Probabilistic method of calculating the effect of clad ballooning in a large bundle LOCA experiment. (C52, E32). 487399
- heat transfer**
Analysis of steam chugging phenomena. Volume 2: user's manual for the CHUG1 computer program. (C52, E31; BWR). 469959
Analysis of steam chugging phenomena. Volume 1: a fundamental thermalhydraulic model to predict steam chugging phenomena. (C52, E31; BWR). 469958
Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). 469975
Analytical model for bottom reflooding heat transfer in light water reactors. (C52, E31, E32, E11). 473203
BEACON/MOD2A: a computer program for subcompartment analysis of nuclear reactor containment. A user's manual. (C52, E32; PWR). 487607
Blowdown (RELAP4/MOD7, Version 2) checkout and demonstration problems. (C52, E32; PWR). 469897
BWR loss-of-coolant accident analysis capability of the WRAP-EM system. (C52, E31). 480028
Comparison of RELAP4/MOD6 to THTF Test 177. (C52, E32; PWR). 487458
Comparison of RELAP4/MOD6 with forced-feed reflood data. (C52, E32; PWR). 469981
Comparisons of thermal-hydraulic phenomena during isothermal loss-of-coolant experiments and effect of scale in LOFT and Semiscale Mod-1. (C52, E32; PWR). 461273
Complete BWR-EM LOCA analysis using the WRAP-EM system. (C52, E31). 491119
Experiment data report for Semiscale Mod-3 lower plenum injection test S-07-9 (baseline test series). (C52, E32; PWR). 494421
Experiment data report for LOFT Power Ascension Test L2-2. (C52, E32; PWR). 476698
Experiment data report for Semiscale MOD-3 reflood heat transfer tests S-07-5 and S-07-5A (baseline test series). (C52, E32, E11; PWR). 461191
Experiment predictions of LOFT reflood behavior using the RELAP4/MOD6 code. (C52, E32; PWR). 461243
Flashing inception in flowing liquids. (C52, E32; PWR). 491159
Heat transfer correlation development and assessment: a summary and assessment of return to nucleate boiling phenomena during blowdown tests conducted at the Idaho National Engineering Laboratory (INEL). (C52, E31, E32; PWR; BWR). 487469
LOCA verification and data bank. (C52, E32; PWR). 461319
LOFT L1-5: comparison of the code assessment test prediction with the test data. (C52, E32; PWR). 469963
Loss-of-coolant accidents in small compact nuclear reactors. (C52, E32; PWR). 473259
Post-dryout heat transfer under low flow and low quality conditions. (C52, E31, E32, E11; BWR; PWR). 469953
Prediction of KWU PKL experiments K5A and K7A using RELAP4/MOD6. (C52, E32; PWR). 469915
Preliminary posttest analysis of LOFT loss-of-coolant experiment L2-2. (C52, E32). 494444
Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
PWR FLECHT-SEASET unblocked bundle, forced and gravity reflood task: task plan report. (C52, E32). 461222
Quick-look report on LOFT Nuclear Experiment L2-3. (C52, E32, E36; PWR). 487565
Reflood experiments with bundles of ballooned rods. (C52, E32, E11; PWR). 469923
Reflood heat transfer in a light water reactor. (C52, E32). 480088
Scaling pressure and subcooling for countercurrent flow. Quarterly progress report, April 1, 1978 - June 30, 1978. (C52, E32; PWR). 466326
Semiscale Program description. (C52, E32; PWR). 487402
Status report on ECC penetration scaling research. (C52, E32; PWR). 480036
Test prediction for FLECHT-SEASET 21-rod bundle test no. 6 (unblocked configuration). (C52, E32; PWR). 473226
Two-dimensional temperature distributions in fuel rods under blowdown conditions. (C52, E32). 487571
Use of moving heat conductor mesh to perform reflood calculations with RELAP4/MOD6. (C52, E32; PWR). 487481
Validation and sensitivity analysis of ORINC. (C52, E32; PWR). 461305
W-1 SLSF experiment. (C52, E35; LMFBR). 487576
- hydraulics**
Analysis and testing of steam chugging in pressure systems. Interim report. (C52, E31; BWR). 461163
Analysis of small breaks in the reactor coolant pump discharge piping for the B and W lowered loop 177 FA plants. (C52, E32; PWR). 461171
Analysis of steam chugging phenomena. Volume 3: SAMPAC hydrodynamic pool response code. (C52, E31; BWR). 469975
Analysis of steam chugging phenomena. Volume 2: user's manual for the CHUG1 computer program. (C52, E31; BWR). 469959
Analysis of steam chugging phenomena. Volume 1: a fundamental thermalhydraulic model to predict steam chugging phenomena. (C52, E31; BWR). 469958
Application of statistical evaluation methodology to the RELAP code. (C52, E32; PWR). 487528
Best estimate prediction for LOFT nuclear experiment L2-3. (C52, E32, E36; PWR). 491164
Blowdown (RELAP4/MOD7, Version 2) checkout and demonstration problems. (C52, E32; PWR). 469897
Comparison of RELAP4/MOD6 to THTF Test 177. (C52, E32; PWR). 487458
Comparison of RELAP4/MOD6 with forced-feed reflood data. (C52, E32; PWR). 469981
Comparisons of RELAP4/MOD6 to LOFT and semiscale isothermal data. (C52, E32; PWR). 469931
Comparisons of thermal-hydraulic phenomena during isothermal loss-of-coolant experiments and effect of scale in LOFT and Semiscale Mod-1. (C52, E32; PWR). 461273
Complete BWR-EM LOCA analysis using the WRAP-EM system. (C52, E31). 491119
Downcomer flow calculations. Status report, February 1979. (C52, E32; PWR). 476685
Experiment data report for Semiscale Mod-3 lower plenum injection test S-07-9 (baseline test series). (C52, E32; PWR). 494421
Experiment data report for LOFT Power Ascension Test L2-2. (C52, E32; PWR). 476698
Experiment predictions of LOFT reflood behavior using the RELAP4/MOD6 code. (C52, E32; PWR). 461243
Flashing inception in flowing liquids. (C52, E32; PWR). 491159
Gravity-feed reflood data comparisons using RELAP4/MOD6, Update 3. (C52, E32; PWR). 469911
Heat transfer correlation development and assessment: a summary and assessment of return to nucleate boiling phenomena during blowdown tests conducted at the Idaho National Engineering Laboratory (INEL). (C52, E31, E32; PWR; BWR). 487469
Improved RELAP4 BWR jet pump model. (C52, E31). 480134
Improved RELAP4 Jet Pump Model. (C52, E31; BWR). 480133
LOCA verification and data bank. (C52, E32; PWR). 461319
LOFT L1-5: comparison of the code assessment test prediction with the test data. (C52, E32; PWR). 469963
Loss-of-coolant accidents in small compact nuclear reactors. (C52, E32; PWR). 473259
Prediction of KWU PKL experiments K5A and K7A using RELAP4/MOD6. (C52, E32; PWR). 469915
Pressurizer component studies with RELAP4/MOD6. (C52, E32; PWR). 469930
Pretest prediction of the W-1 SLSF experiment using the COMMIX-1A computer code. (C52, E35; LMFBR). 487466
PWR FLECHT-SEASET unblocked bundle, forced and gravity reflood task: task plan report. (C52, E32). 461222
Quick-look report on LOFT Nuclear Experiment L2-3. (C52, E32, E36; PWR). 487565
RELAP4 stagnation properties option. (C52, E32; PWR). 473219
Scaling pressure and subcooling for countercurrent flow. Quarterly progress report, April 1, 1978 - June 30, 1978. (C52, E32; PWR). 466326
Semiscale Program description. (C52, E32; PWR). 487402
Status report on ECC penetration scaling research. (C52, E32; PWR). 480036
Steam generator component studies with RELAP4/MOD6. (C52, E32; PWR). 469978
Test prediction for FLECHT-SEASET 21-rod bundle test no. 6 (unblocked configuration). (C52, E32; PWR). 473226
Two phase interactions in counter-current flow: studies of the flooding mechanism. Annual report, November 1975 - October 1977. (C52, E32; PWR). 480050
Use of moving heat conductor mesh to perform reflood calculations

- with RELAP4/MOD6. (C52, E32; PWR). 487481
W-1 SLSF experiment. (C52, E35; LMFBR). 487576
Water impact tests of rigid and flexible cylinders. (C52, E31). 482197
- hydrodynamics**
- Calculations of flow oscillations during reflood using RELAP4/MOD6. (C52, E32). 487442
Effect of torus wall flexibility on hydro-structural interaction in BWR containment system. (C52, E31). 491170
Eulerian fluid-structure analysis of BWR. (C52, E31). 487532
- I codes**
- LOCA MK II. A program for calculating fuel and cladding temperatures in SGHWR following a loss-of-coolant accident. (E34). 463661
- m codes**
- MABEL-1. A code to analyse cladding deformation in a loss-of-coolant accident. (E32). 463628
- mathematical models**
- Application of statistical evaluation methodology to the RELAP code. (C52, E32; PWR). 487528
Code Assessment and Application Program. Code data comparison for Semiscale Mod-3 integral Test S-07-6. Interim report. (C52, E32). 466317
Comparisons of RELAP4/MOD6 to LOFT and semiscale isothermal data. (C52, E32; PWR). 469931
Computational methods in thermal reactor safety. (C52, E31, E32; PWR; BWR). 491188
Developmental verification of the FRAP uncertainty analysis option. (C52, E31, E32, E11; BWR; PWR). 469946
Gravity-feed reflood data comparisons using RELAP4/MOD6, Update 3. (C52, E32; PWR). 469911
Implementation of a nonequilibrium condensation model in RELAP4/MOD7. (C52, E31, E32). 473225
TRAC-PIA: An advanced best-estimate computer program for PWR LOCA analysis. (C52, E32). 487524
Use of flow models to analyse loss of coolant accidents. (C52). 491184
- pressure gradients**
- Applicability of flat plate methods in determining fluid/structure interaction effects in BWR pressure suppression systems. (C52, E31). 494410
CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). 487496
Loss-of-coolant accident test series test loc 3 experiment predictions. (C52, E32; PWR). 491213
PBF-LOCA test series test LOC-11 experiment operating specification. (C52, E32, E36; PWR). 473237
- pressure vessels**
- Availability of a pressurized water reactor pressure vessel after a small LOCA. (C52, E32). 461211
- pwr type reactors**
- ASCOT-1: a computer program for analyzing the thermo-hydraulic behavior in a PWR core during a LOCA. (F51, C52). 471183
- quenching**
- Correlation of quench phenomena for bottom flooding during loss-of-coolant accidents. (E32). 491903
- r codes**
- RELAP4 - analysis of data from loca experiments in the fix loop. Case D6-259, a bottom break experiment without dryout. (C52, E31). 480081
RELAP4 analysis of data from loca experiments in the fix loop. Case C13-263, a top break experiment with dryout. (C52, E31). 480104
RELAP4 analysis of data from loca experiments in the fix loop. Case C12-245, a top break experiment without dryout. (C52, E31). 480103
RELAP4 analysis of data from loca experiments in the fix loop. Case F6-267, a pump trip experiment with dryout. (E52, E31). 480884
- reactor cores**
- Local conditions and uncertainty bands for Semiscale Test S-02-9. (C52, E32; PWR). 487599
- reactor protection systems**
- Boric acid effects on water properties and LOCA thermal-hydraulics in PWRs. (C52, E32). 466323
- reactor safety experiments**
- Pitot tube and drag body measurements in transient steam-water flows. (C52, E32). 487479
Simulation of the loss of coolant accidents in PWR by ROSA-2 experiment. (E32). 463625
- risk analysis**
- Loss of coolant accident. Past, present and future. (C52). 469902
- simulation**
- Analysis of the thermal-hydraulic phenomena resulting in early critical heat flux and rewet in the semiscale core. (C52, E32, E11; PWR). 469967
Best estimate prediction for LOFT nuclear experiment L2-3. (C52, E32, E36; PWR). 491164
Evaluation of the effect of break nozzle configuration in loss-of-coolant accident analysis. (C52, E32). 480072
Experiment data for determination of uncertainty of two-phase mass flow rate in a Semiscale Mod-3 system spool piece at Karlsruhe Kernforschungszentrum. (C52, E32; PWR). 494438
Imaging optical probe for pressurized 620°K steam-water environment. (E42, E32). 474147
LOFT isothermal and nuclear experiment results. (C52, E32, E36). 487522
Loss-of-coolant accident test series test LOC 5 experiment operating specification. (C52, E32; PWR). 466341
- PBF-LOCA single rod tests program experiment specification document. (C52, E32; PWR). 480169
PBR/LOFT Lead Rod Test Program experiment operating specification. (C52, E32, E36; PWR). 466336
Quick look report on LOFT nuclear experiment L2-2. (C52, E32, E36; PWR). 466276
Thermal-hydraulic phenomena resulting in early critical heat flux and rewet in the semiscale core. (C52, E32). 487580
Two-phase flow phenomena in nuclear reactor technology. (C52, E32; PWR). 469961
- spatial distribution**
- CONTEMPT-LT/028: a computer program for predicting containment pressure-temperature response to a loss-of-coolant accident. (C52, E31, E32; PWR; BWR). 487496
Evaluation of simulated-LOCA tests that produced large fuel cladding ballooning. (C52, E32; PWR). 487558
Loss-of-coolant accident test series test loc 3 experiment predictions. (C52, E32; PWR). 491213
PBF-LOCA test series test LOC-11 experiment operating specification. (C52, E32, E36; PWR). 473237
Validation and sensitivity analysis of ORINC. (C52, E32; PWR). 461305
- stress analysis**
- Seismic safety margins research program. Project VIII load combination project: work plan. (C52, E31, E32; PWR; BWR). 491134
- stresses**
- Analysis and testing of steam chugging in pressure systems. Interim report. (C52, E31; BWR). 461163
Seismic safety margins research program. Project VIII load combination project: work plan. (C52, E31, E32; PWR; BWR). 491134
Transient deformation properties of zircaloy for LOCA simulation. (C52, E32, B2; PWR). 461253
- temperature measurement**
- Goeta loop ECCS test data analysis. (E31). [Data] 491849
- thermal stresses**
- Deformation characteristics of Zircaloy cladding in vacuum and steam under transient-heating conditions: summary report. (E31, E32, B2; PWR; BWR). 466662
Evaluation of fuel rod behavior during Test LOC-11. (C52, E32; PWR). 487452
Evaluation of simulated-LOCA tests that produced large fuel cladding ballooning. (C52, E32; PWR). 487558
- two-phase flow**
- BEACON/MOD2A: a computer program for subcompartment analysis of nuclear reactor containment. A user's manual. (C52, E32; PWR). 487607
Current capabilities of transient two-phase flow instruments. (C52, E31, E32, E11, E42; BWR; PWR). 487581
Drag-disc turbine transducer data evaluation methods for dynamic steam-water mass flow measurements. (E42, E32; PWR). 474161
Experimental investigations of nonequilibrium flashing of water in a converging-diverging nozzle. (C52, E31, E32, E11; BWR; PWR). 487620
Investigations on separated two-phase flow concerned with LOCA of LWR. (E31). 482749
K-FIX: a computer program for transient, two-dimensional, two-fluid flow. THREED: an extension of the K-FIX code for three-dimensional calculations. (C52, E31, E32, E11; BWR; PWR). 466325
Mass flow rate measurements in two-phase mixtures with stagnation probes. (C52, E32; PWR). 491143
Measurement of phase separation in wytes and tees. (C52, E31, E32, E11; BWR; PWR). 461225
Modeling of two-phase flow with thermal and mechanical non-equilibrium. (E31, E32). 466667
Network computations using a transient two-phase velocity difference model. (C52, E11; BWR; PWR). 461246
Reflood experiments with bundles of ballooned rods. (C52, E32, E11; PWR). 469923
Review of two-phase steam-water critical flow models with emphasis on thermal nonequilibrium. (C52, E31, E32, E11; BWR; PWR). 466327
Some numerical results with the COMMIX-2 computer code. (C52, E31, E32, E11; BWR; PWR). 491197
Survey on vertical two-phase countercurrent flooding. (C52, E31, E32, E11; BWR; PWR). 461307
Two phase interactions in counter-current flow: studies of the flooding mechanism. Annual report, November 1975 - October 1977. (C52, E32; PWR). 480050
Two-phase flow phenomena in nuclear reactor technology. Quarterly progress report no. 8, 1 Mar-31 May 1978. (C52, E31, E32, E11). 491167
Two-phase interactions in countercurrent flow. Annual report, November 1977 - October 1978. (C52, E31, E32; PWR; BWR). 466291
- LOSS OF FLOW:**
- Analysis of TREAT Tests L7 and L8 with SAS3D, LEVITATE and PLUTO2. (C52, E35; LMFBR). 480027
LMFBR safety and sodium boiling. (C52, E35). 461221
- acoustic monitoring**
- Acoustics of the Sodium Loop Safety Facility P2 experiment. (C52, E35; DOE). 466271
- after-heat removal**
- Dynamic simulation of LMFBR plant under natural circulation. (C52, E35). 487394
- boiling detection**
- Acoustics and voiding dynamics during SLSF simulations of LMFBR undercooling transients. (C52, E35). 461164

- fuel element failure**
Heat transfer, sodium boiling and fuel pin integrity after a severe LMFBF piping failure. (C52, E35, E11). 469912
Multichannel model for relocation of molten fuel cladding in unprotected loss-of-flow accidents in liquid-metal fast breeder reactors. (C52, E35). 461228
- heat transfer**
Heat transfer, sodium boiling and fuel pin integrity after a severe LMFBF piping failure. (C52, E35, E11). 469912
LMFBF fuel analysis. Task A: oxide fuel dynamics. Final report, October 1977 - September 1978. (C52, E35). 487461
LOFT natural circulation test analysis for 30% reactor power and high flow rate conditions. (C52, E32, E36; PWR). 487477
- hydraulics**
LMFBF fuel analysis. Task A: oxide fuel dynamics. Final report, October 1977 - September 1978. (C52, E35). 487461
- hydrodynamics**
Acoustics and voiding dynamics during SLSF simulations of LMFBF undercooling transients. (C52, E35). 461164
- natural convection**
LOFT natural circulation test analysis for 30% reactor power and high flow rate conditions. (C52, E32, E36; PWR). 487477
- one-dimensional calculations**
Transient analyses of a 1000-MW gas-cooled fast reactor. (C52, E35). 469979
- reactor safety**
Cladding motion and entrainment during loss of flow in the LMFBF. (C52). 469960
- sodium**
Transient boiling of sodium in a seven-pin bundle under loss-of-flow conditions. (E35). 466728
- LOSS OF FLUID TEST REACTOR:**
See LOFT REACTOR
- LOSSES:**
- closures**
Recent developments in linear theta-pinch and laser-heated solenoid research. (A14). [Data] 464410
- LOSSES (ENERGY):**
See ENERGY LOSSES
- LOUISA-1 REACTOR:**
- inspection**
Ultrasonic inspection of austenitic welds in the primary circuit of the Loviisa 1 nuclear power plant. (E32). 463633
- LOW DOSE IRRADIATION:**
Carcinogenesis in mice after low doses and dose rates. (C14). 479867
- beagles**
Neoplasms in dogs receiving low-level gamma radiation during pre- and postnatal development. (C14). 482053
- biological radiation effects**
Action of minute dosim of gamma rays on gestation of mice. (C14). 463182
- carcinogenesis**
The hazards of low-level radiation. (C15, C52). 472993
- cell proliferation**
Breast cancer incidence among atomic bomb survivors: implications for radiobiologic risk at low doses. (C15, E14). 461070
- chromosomal aberrations**
Paramecium aurelia as a cellular model used for studies of the biological effects of natural ionizing radiation or chronic low-level irradiation. (C12). [Data] 484490
- dose-response relationships**
The quadratic low-LET dose-effect relation for life shortening in mammals. Implications for the assessment of the low-dose hazard to human populations. (C14). 482045
- fishes**
Radioecological studies of amphibians. Final report, September 15, 1968 - July 21, 1977. (C21, C14, C22). [Data] 494346
- Methods for screening radiation-induced mutations in fish. (C14). [Data]** 484531
- fission neutrons**
The secret of Hiroshima. (C15; The effects of low-dose neutron irradiation). 479894
- food**
Progress in food irradiation: United States of America. (C43, C55). 482146
- health hazards**
Cancer and Toxicology Section. (C15). 472990
- Effects on populations of exposure to low levels of ionizing radiation: implications for nuclear energy and medical radiation. The 1979 report of the Advisory Committee on the Biological Effects of Ionizing Radiation (The BEIR Report). (C15). 487248**
Health effects of low-level ionizing radiation. (C15). 487247
- leukemia**
Risk of breast cancer following low-dose radiation exposure. (C15, C61, C63). 490984
- leukemogenesis**
The secret of Hiroshima. (C15; The effects of low-dose neutron irradiation). 479894
- Childhood leukemias associated with fallout from nuclear testing. (C15, B33, E14; Incidence in Utah children under 15 years old between 1951 and 1958). [Data]** 473010
- metabolism**
Importance of the non-specific component in development of metabolic carbohydrate-energy changes following exposure to relatively small doses of ionizing radiation. (C14). 466041
- plant growth**
Radiation as a stimulant for early flowering in pineapple (Ananas Comosus Merr.) variety 'kew'. (C41). 463298
- radiation hazards**
Background radiation and estimated risks from low-dose irradiation. (C15, C55). 491005
Low-dose radiation. (C15, C55). 490988
Radiation risks - a rejoinder. (C15, C53, C52). 473011
- radiotherapy**
Low-dose preoperative radiation therapy in carcinoma of the supraglottic larynx. (C63). 470202
- reproduction**
Effects of continuous gamma radiation on the reproductivity of mice. (C14). 482040
- response modifying factors**
Injury susceptibility enhancement in plants exposed to stimulating gamma-ray doses. (C13). 465958
- risk analysis**
Dose-response and standard setting. (C15, C53). 461080
Kinetic basis for compensated hemopoiesis during continuous irradiation with low doses. (C14; γ rays; mice). [Data] 476556
New radiobiological findings bearing on the 1977 ICRP recommendations. (C14, C15; Sensitivity of mouse and monkey prenatal oocytes to chronic, low-dose, tritium exposure). [Data] 479821
- Perspectives of decision-making and estimation of risk in populations exposed to low levels of ionizing radiations. (C15, C21, C50). 469693**
Re-analysis of data relating to the Hanford study of the cancer risks of radiation workers. (C15). [Data] 479902
- skin**
Late effects of ionizing radiation on the human skin after occupational exposure. (C15). 479909
- stimulation**
Mechanisms of action of low-level radiation doses on developmental processes. (C10). 465867
- synergism**
Radiation-induced developmental anomalies in mammalian embryos by low doses and interaction with drugs, stress and genetic factors. (C14). 482038
- LOW ENERGY ELECTRON DIFFRACTION:**
See ELECTRON DIFFRACTION
- LOW EQUATION:**
- nonlinear problems**
On a convergence of iterative processes for approximate solution of the nonlinear singular Low equation. (A11). 483127
- numerical solution**
On a convergence of iterative processes for approximate solution of the nonlinear singular Low equation. (A11). 483127
Qualitative determination and approximate solution of the irregularizable Low equation. (A11). 467146
- LOW FREQUENCY RADIATION:**
See LONG WAVE RADIATION
- LOW LEVEL COUNTERS:**
- gamma radiation**
Two survey meters for measuring low γ -ray dose rates. (E41). 461832
- LOW LEVEL COUNTING:**
Low-level counting statistics: reply to a comment. (C55). 487637
- gamma spectrometers**
Gamma spectroscopic determination of U, Ra, Th and K in natural samples. (B11). 493540
- photomultipliers**
Current performance of photomultipliers for coincidence measurement of low level beta radiation using liquid scintillators and correlations of current and pulse measurements of basic parameters. (E41). 485126
- statistics**
Comments on 'The statistical interpretation of counting data from measurements of low-level radioactivity' by J.J. Donn and R.L. Wolke. (E41). 474031
- LOW PRESSURE COOLANT INJECTION:**
- failures**
Utility assessment of the high pressure/low pressure safety injection interface. (C52, E32). 487504
- valves**
Safety cooling system particularly intended for nuclear reactors. (E32). 470656
- LOW TEMPERATURE:**
- physics**
Experimental techniques in low-temperature physics. (A17). 468000
- LOW-BETA PLASMA:**
(Beta from 0 to 0.01.)
- charged-particle transport**
Negative diffusion of perpendicular ion energy in a magnetized plasma due to mode-coupling process. (A14). 478167
- drift instability**
Finite beta trapped electron fluid mode. (A14). 478179
- helical configuration**
Non-linear calculation of $m=1$ reconnecting mode in a current-carrying helical system. (A14). 483414
- kink instability**
Dynamic shear stabilization of hydromagnetic instabilities in low-beta plasma column by a frequency near the ion cyclotron frequency. (A14). 467631
- magnetoacoustic waves**
Magneto-acoustic oscillations in a current carrying plasma column - Corrigendum. (A14). 462399

- stability**
Non-linear calculation of $m=1$ reconnecting mode in a current-carrying helical system. (A14). 483414
- turbulent flow**
A review of electrostatic wave measurements on auroral magnetic field lines. (B33). 476486
- LOW-ENERGY THEOREM:**
nucleon-nucleon interactions
Soft-photon theorem for the electromagnetic interaction of the relativistic two-nucleon system. (A21, A11). 475618
- LOW-LEVEL RADIOACTIVE WASTES:**
(Wastes containing less than $5 \times 10 \exp(-5)$ microcuries/milliliter of radioactivity.)
Sources, amounts, and characteristics of low-level radioactive solid wastes. (E50). 474174
- chemical composition**
Characterization of selected low-level radioactive waste generated by four light water reactors located in New York State. (E51). 474200
- Origin and characteristics of low-level non-transuranic waste from the nuclear fuel cycle. (E50). 474165
- combustion**
Cleaning of stack gases from combustion of low level radioactive waste in Studsvik, Sweden. (E51). 480836
- decomposition**
Exhumation test with aged radioactive solid wastes. (E52, C54, B31). 474258
- dialysis**
Removal of radioactive ions from nuclear waste solutions by electrodialysis. (B13, E51). 476166
- leaching**
Borehole monitoring of radioactive waste trenches. (E52, C54, B31). 474249
- Leachability of solidified low-level radioactive waste forms. (E52, C52). 474272
- origin**
Description of solid waste expected from a large commercial reprocessing plant. (E50, B16). 474173
- Origin and characteristics of low-level non-transuranic waste from the nuclear fuel cycle. (E50). 474165
- packaging**
Is the steel drum the answer. (E52). 474263
- radiation hazards**
American coot (*Fulica americana*) on the Hanford Site. Part 1. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). [Data] 487211
- radioactive waste storage**
American coot (*Fulica americana*) on the Hanford Site. Part 1. Nesting biology. (C14, C22, E52, C52; Effects of low-level radioactive wastes at nesting sites on nesting biology). [Data] 487211
- Radiological safety assessment for a low-level radioactive solid waste storage facility: preliminary risk evaluation by reliability techniques. (C52, E51). [Data] 461255
- radioactivity**
Activity levels of transuranic nuclides in low-level solid wastes from U.S. power reactors. (E50). 488315
- sintering**
Uranium tailings need consolidating. (E51). 461914
- transport**
Transportation of low-level radioactive waste. (E15). 473649
- uranium ores**
Uranium tailings need consolidating. (E51). 461914
- volume**
Description of solid waste expected from a large commercial reprocessing plant. (E50, B16). 474173
- waste management**
Operational and engineering developments in the management of low-level radioactive waste at the Idaho National Engineering Laboratory. (E52). 474261
- Overview of the Nuclear Regulatory Commission Low-Level Waste Management Program. (E52, C52). 474235
- Review of waste management for a large-scale mixed oxide fuel fabrication facility. (E50). 480826
- LPCI:**
See **LOW PRESSURE COOLANT INJECTION**
- LT-3 TOKAMAK:**
Plasma physics research at the Australian National University. (A14). 489303
- LTH:**
bioassay
Relationship between bioassay and radioimmunoassay estimates of prolactin in rat serum. (C62). 470129
- calibration standards**
International reference preparations of human prolactin for radioimmunoassay: definition of the international unit, report of a collaborative study and comparison of estimates of human prolactin made in various laboratories. (C62). [Data] 473418
- chemical composition**
Rabbit lutropin: preparation, characterization of the hormone, its subunits and radioimmunoassay. (C45). 480003
- intestinal absorption**
Transfer of milk prolactin to the plasma of neonatal rats by intestinal absorption. (C45). [Data] 476666
- iodine 125**
Binding of [125 I] rat prolactin and [125 I] ovine prolactin to their specific receptors and antibodies. (C31). 479974
- mammary glands**
Metabolism of prolactin in mice with a high incidence of mammary tumours: evidence for greater conversion into a non-immunoassayable form. (C45). 487379
- neoplasms**
Metabolism of prolactin in mice with a high incidence of mammary tumours: evidence for greater conversion into a non-immunoassayable form. (C45). 487379
- radioimmunoassay**
Dried *Staphylococcus aureus* as a rapid immunological separating agent in radioimmunoassays. (C62). [Data] 487753
- Relationship between bioassay and radioimmunoassay estimates of prolactin in rat serum. (C62). 470129
- LUBRICANTS:**
See also **GREASES**; **LUBRICATING OILS**
radiosensitivity
Ionizing radiation effects on technological materials. (B25). 479554
- LUBRICATING OILS:**
chemical radiation effects
Radiation effects on a lubricating base oil and their application in radiation dosimetry β . (B14). 493801
- decomposition**
Oil biodegradation study. (C52). [Data] 480164
- oxidation**
On the development of isotopic methods in tribology. Pt. 2. (B13). 472487
- refining**
Method of refining uranium-containing waste oils. (E51). 477463
- LUBRICATION:**
magnetohydrodynamics
Theoretical and experimental study of a rotating field magnetohydrodynamic bearing. (E13). 473631
- LUCIFERIN:**
biochemical reaction kinetics
The biochemistry of earthworm bioluminescence. (A12, C11). 485550
- luminescence**
Elimination of the effect of contaminating CO_2 in the 18 -labeling of the CO_2 produced in the bioluminescent reactions. (C21). 487309
- tracer techniques**
Elimination of the effect of contaminating CO_2 in the 18 -labeling of the CO_2 produced in the bioluminescent reactions. (C21). 487309
- LUCITE:**
deuteron reactions
Thick-target neutron and γ -ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- photon transport**
Comparative study of dosimetric aspects of 4-MeV linear accelerator. (D15, A32). 461464
- proton reactions**
Thick-target neutron and γ -ray yields induced by medium-energy proton and deuteron bombardments. (A31). 475689
- LUMINAL:**
See **PHENOBARBITAL**
- LUMINESCENCE:**
See also **CHEMILUMINESCENCE**; **FLUORESCENCE**; **LYOLUMINESCENCE**; **THERMOLUMINESCENCE**
[Development and applications of photosensitive device systems to biological studies]. Three year progress report. (E41). 461852
- biochemical reaction kinetics**
The biochemistry of earthworm bioluminescence. (A12, C11). 485550
- comparative evaluations**
Studies on aminodioxetanes as a model of bioluminescence intermediates. (A12). 485451
- cosmological models**
Light on the darkness of the night sky. (A15). 492938
- excitons**
Creation of bi-excitons in CdS by bombardments of MeV heavy charged particles. (A13). [Data] 489028
- quenching**
Reactions of the excited states of substituted polypyridinechromium(III) complexes with oxygen, iron(II) ions, ruthenium(II) and -(III), and osmium(II) and -(III) complexes. (B12). 460446
- temperature dependence**
Influence of temperature on isothermal luminescence (ITL) decay in frozen organic matrices at 14-100 K. (B14). [Data] 465489
- Yellow bioluminescence from a bacterial extract at low temperature. (A12, C11). 485482
- LUMINESCENT CHAMBERS:**
light pipes
Proportional electroluminescent chambers and electroluminescent volume particle detectors with the spatial. (E41). 488280
- LUMINESCENT DOSEMETERS:**
See also **RPL DOSEMETERS**; **THERMOLUMINESCENT DOSEMETERS**
dose-response relationships
Apparatus for the interpretation of luminescence dosimeters adapted for measurement of integrated dose rates of corpuscular radiation or energetic wave radiation. (E41). 480788
- LUMINOUSITY:**
specifications
H1 profile distances and the Hubble constant. (A15). 467812
- transformations**
Relativistic transformations of light power. (A11). 488675
- LUMINOUS PAINTS:**
radiation accidents
Contamination in an office and exposure of office workers. (C51). 491110

- radiation hazards**
Tritium pollution in the Swiss luminous compound industry. (C21, C22). [Data] 491029
- LUNAR MATERIALS:**
- age estimation**
Cosmic-ray-induced fission of heavy nuclides: possible influence on apparent ^{238}U -fission track ages of extraterrestrial samples. (A15). 460040
- chemical composition**
Luna 24 origins: some trace element constraints. (A15). 460080
Origin of KREEP. (A15). [Data] 464685
Predicted versus observed cosmic-ray-produced noble gases in lunar samples: improved Kr production ratios. (A15, A33; From excitation functions for proton spallation of Rb, Sr, Y, Zr at 10 MeV to 10 GeV). 492975
Volatile metal deposits on lunar soils: relation to volcanism. (A15). 467741
- cosmic dust**
Response of lunar ejecta and meteorites experiment (LEAM) to electrostatically charged lunar dust. (A15). 478207
- element abundance**
Procrustean science: Indigenous siderophiles in the lunar highlands, according to Delano and Ringwood. (A15). 475171
- ion collisions**
Mass effects on angular distribution of sputtered atoms. (A12, A15). 485504
- petrology**
Apollo 12 feldspathic basalts 12031, 12038, and 12072; petrology, comparison and interpretations. (A15). 489416
Petrology of the Apollo 12 pigeonite basalt suite. (A15). 489410
- rare gases**
Diffusion of rare gases of solar wind origin from lunar fines as bubbles. (A15). 467951
- solar wind**
Diffusion of rare gases of solar wind origin from lunar fines as bubbles. (A15). 467951
- sputtering**
Mass effects on angular distribution of sputtered atoms. (A12, A15). 485504
- LUNG CLEARANCE:**
- biological localization**
Short-life radionuclides and regional lung function. (C62). 473440
- biological radiation effects**
Suppression of the pulmonary clearance of *Staphylococcus aureus* in mice that had inhaled either $^{144}\text{CeO}_2$ or $^{239}\text{PuO}_2$. (C21). [Data] 476617
- iridium 192**
Estimation of long-term biological elimination of insoluble ^{192}Ir from the human lung. (C21). 491016
- mathematical models**
Transit time and ratio of moments. (C62). 473486
- technetium 99**
Lung clearance of soluble radioaerosols of different molecular weights in systemic sclerosis. (C62, C21). [Data] 473413
- LUNGS:**
- Disposition of $^{239}\text{Pu}(\text{NO}_3)_4$ following inhalation by beagle dogs. (C21). [Data] 473049
Toxicity of ^{144}Ce inhaled in a relatively insoluble form by beagle dogs: X. (C21). 469752
- biological functions**
Elastase-induced emphysema in guinea pigs. (C52). [Data] 473238
- biological radiation effects**
Biological and environmental behavior of plutonium. (C21, B33, C22, C52; Risk of cancer fatalities in populations exposed by dispersal of reactor plutonium). 473044
Cytological changes in the estimation of therapeutic effectiveness and prognosis in lung cancer cases. (C63). 470193
Dose-effect studies with inhaled plutonium oxide in beagles. (C21; ^{238}Pu , ^{239}Pu). 473079
Effects of irradiation of mixed muellerian tumors of the uterus. (C15, C63, C64; Complications following external and internal radiotherapy and surgery). 487268
Experimental radiation pneumonitis. III. Phospholipid studies on the lungs. (C14; X radiation, mice). [Data] 472956
Long term follow-up of combination chemotherapy-radiotherapy of Stage III Hodgkin's disease. A Cancer and Acute Leukemia Group B study. (C15, C63). 487253
Modification of radiation-induced pulmonary fibrosis in rats. (C14). 490977
- Pulmonary connective tissue modifications induced by internal α irradiation. Effect of time and dose on alterations following inhalation of plutonium-239 dioxide aerosol in rat. (C21). 469771
Quantitation and renewal of alveolar and bronchiolar cell populations of rat lungs. Changes during some pathological processes. (C14). 494293
Radiation therapy in lymphomatoid granulomatosis. (C15, C63). 461077
Relative effects of uniform and non-uniform external radiation on the induction of lung tumours in mice. (C14). 482021
Respiratory tract tumors in Syrian hamsters following inhalation of $\text{Pu}-\text{ZrO}_2$ particles. (C21; Comparison with incidence of lung tumors following intravenous injection of $\text{PuO}_2/\text{ZrO}_2$ microspheres). [Data] 473099
Retrospective study of 131 cases of carcinoma of the posterior pharyngeal wall. (C15; Complications of local megavoltage irradiation). 469716
Role of radiation therapy in the treatment of pediatric non-Hodgkin's lymphomas. (C15; Complications of local irradiation and chemotherapy). 469688
Sequential hemi-body radiotherapy in advanced multiple myeloma. (C15, C63; Side effects of indicated x-ray therapy). 469700
- biomedical radiography**
Diagnostic significance of angiotomography and scanning for thoracic surgery clinic. (C62, C61). 482338
Pulmonary abnormalities in mitral valve disease. (C61). 473331
Roentgenological and radioisotope investigations of lung blood circulation and ventilation using pharmacologic drugs and functional loads. (C62, C61). 482384
A simplified approach to the reporting of intensive therapy unit chest radiographs. (C61). 473328
- blood circulation**
Lung blood supply in patients with bronchus cancer before and after radiotherapy (according to angioscanning data). (C63). 494642
Mathematical simulation of ^{133}Xe transport in study of lung regional blood circulation. (C62). 494542
- body fluids**
Simulants of lung interstitial fluid. (C21). 487304
- calcium**
Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of $^{99\text{m}}\text{Tc}$ -pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calcification at these sites). 470174
- carcinomas**
Preoperative infusion of mitomycin-C in the bronchial artery in squamous cell carcinoma of the lung. (C61). 491276
- cat scanning**
Radionuclide computed tomography of the body using routine radiopharmaceuticals. II. Clinical applications. (C62). 473408
Transmission computed tomographic diagnosis of experimentally produced acute pulmonary vascular occlusion in the dog. (C62, C61; Comparison with radiography and scintiscanning). 491326
- cuex**
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
- decontamination**
Influence of lavage therapy on the distribution patterns of inhaled, relatively insoluble particles in the lung. (C21). 469792
- delayed radiation effects**
Effect of penicillamine on radiation-induced pulmonary lethality in mice. (C14). 490968
Experimental radiation pneumonitis: changes in physiology of the alveolar surface. (C14). 461039
Hodgkin's disease terminating in oat cell carcinoma of the lung. (C15, C63; Carcinogenic side effects of chemotherapy and radiotherapy). 487240
Inhalation carcinogenesis of high-fired $^{24}\text{CrO}_2$ in rats. (C21). 461105
Late effects of inhaled $^{253}\text{Es}(\text{NO}_3)_3$ in the rat. (C21). [Data] 473037
Long-term radiation changes in collagen in rat's lungs. (C14). 465989
Mass survey of lung cancer in atomic bomb survivors. (C15). 482075
Pathological studies on carcinoma of the lung in rats induced by external x-ray irradiation. (C14). 469644
Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). 487276
Radionuclide evaluation of pulmonary function following hemithorax irradiation of normal dogs with ^{60}Co or fast neutrons. (C14, C62; ^{133}Xe and $^{99\text{m}}\text{Tc}-\text{Sn}-\text{phytate}$). 469624
- diagnosis**
Arterioscanning in diagnosis and differential diagnosis of lung cancer. (C62). 482444
Dynamic scintiphotography of lungs using computer data processing in case of traumatic pneumonia. (C62). 482367
Experience in roentgeno-radioisotope investigations of lung inflammations. (C62, C61). 482385
Radiological features of pulmonary oedema. (C61). 482288
Roentgeno-scintiscanning changes in lungs in case of non-specific pulmonary diseases. (C62). 482370
- dose commitments**
Annual environmental monitoring report: calendar year 1978. (B33, C52, C22, C21). [Data] 490849
Anticipated radiological impacts from the mining and milling of thorium for the nonproliferative fuels. (C21, C52, C54; Dose commitments to individuals and populations from inhalation or ingestion of thorium-cycle-related radionuclides). 461099
AQUAMAN: a computer code for calculating dose commitment to man from aqueous releases of radionuclides. (C21, C52, C22; Internal and external dose conversion factors and bioaccumulation factors for 56 radionuclides). 469787
Doses for various pathways to man based on unit concentrations of radionuclides pertinent to decontamination and decommissioning of properties. (C21, B33, C22, C52). 473060
Environmental monitoring report, United States Department of Energy, Paducah Gaseous Diffusion Plant, calendar year 1978. (B33, C52, C22, B32, C21). [Data] 490877
Internal dosimetry data and methods of ICRP. Part I. (C21, D15). 487285
Internal dosimetry program in a plutonium facility. (C21, C54). 473058
Radiological environs study at a fuel fabrication facility. (C55, C22, C21, C52; General Electric Fuel Fabrication Plant at Wilmington, NC). 470006
- dose rates**
Suppression of the pulmonary clearance of *Staphylococcus aureus* in mice that had inhaled either $^{144}\text{CeO}_2$ or $^{239}\text{PuO}_2$. (C21). [Data]

| | | | |
|---|--------|---|--------|
| | 476617 | Toxicity of inhaled $^{238}\text{PuO}_2$ in beagle dogs. A. Monodisperse 1.5 μm AD $^{238}\text{PuO}_2$ particles B. Monodisperse 3.0 μm AD particles. IV. (C21). | 469772 |
| dose-response relationships | | Toxicity of inhaled $^{239}\text{PuO}_2$ in beagle dogs A. Monodisperse 0.75 μm $^{239}\text{PuO}_2$ particles. B. Monodisperse 1.5 μm $^{239}\text{PuO}_2$ particles. C. Monodisperse 3.0 μm $^{239}\text{PuO}_2$ particles. (C21). | 469778 |
| Dose conversion factors for radon daughters. (C55, C21, C15). | 491261 | Toxicity of inhaled ^{90}Sr in fused aluminosilicate particles in beagle dogs. VIII. (C21). | 469788 |
| dynamic function studies | | Treatment of acute lung injury from external gamma irradiation with an inhaled corticosteroid. (C14). | 469657 |
| Bi-exponential analysis of pulmonary washout curves during functional examination with xenon 133. (C31). | 491077 | pathology | |
| Krypton-81m: a better radiopharmaceutical for assessment of regional lung function in children. (C62, C31). | 494532 | Inhaled radon daughters and uranium ore dust in rodents. (C21; Rats). | 473046 |
| Radionuclide evaluation of pulmonary function following hemithorax irradiation of normal dogs with ^{60}Co or fast neutrons. (C14, C62; ^{133}Xe and /sup 99m/Tc-Sn-phytate). | 469624 | physiology | |
| early radiation effects | | Kinetics of pulmonary defense in deep lung. (C31). | 479973 |
| Predictive model of early mortality following acute inhalation of PuO_2 aerosols. (C21; Extrapolation of beagle data to man). | 491041 | plutonium | |
| Radiation therapy in bronchogenic carcinoma. (C15, C63; Palliative effects on related symptoms and acute and delayed complications of radiotherapy). | 487276 | Attenuation of 13-20 keV photons in tissue substitutes and their validity for calibration purposes in the assessment of plutonium in lungs. (C55). | 461360 |
| Severe radiation pneumonitis precipitated by withdrawal of corticosteroids: a diagnostic and therapeutic dilemma. (C15, C63; Abrupt prednisone withdrawal after radiotherapy). | 487267 | Interlaboratory comparison of techniques for measuring lung burdens of low-energy photon-emitters. (C55, C21). [Data] | 461361 |
| emboli | | Methods for the assay of plutonium in vivo: what are the alternatives. (B11, C21). | 460419 |
| Lung ventilation-perfusion scintigraphy in pulmonary embolism. (C61). | 491271 | plutonium dioxide | |
| fibrosis | | Carcinogenicity of inhaled air-oxidized $^{239}\text{PuO}_2$ in rats. (C21). | 482098 |
| Determination of nanogram quantities of hydroxyproline as a means of measuring collagen densities to detect focal pulmonary fibrosis. (C60). | 470020 | plutonium oxides | |
| metastases | | Direct comparisons of human and animal data for plutonium oxide inhalation. (C21). | 463241 |
| Large-scale irradiation of malignant tumour metastases to lungs. (C63). | 494624 | radiation doses | |
| Metastatic calcification: the role of bone scanning. (C62; Abnormal uptake of /sup 99m/Tc-pyrophosphate in lungs, stomach, kidneys, spine, and femur indicating metastatic calcification at these sites). | 470174 | Bioassay at uranium mills: a discussion of Nuclear Regulatory Commission regulatory guide 8.22. (C54, C21). [Data] | 466353 |
| morphological changes | | Biological and environmental behavior of plutonium. (C21, B33, C22, C52; Risk of cancer fatalities in populations exposed by dispersal of reactor plutonium). | 473044 |
| Morphometry of rodent lung following inhalation of $^{239}\text{PuO}_2$. (C21; Rats, hamsters). [Data] | 473084 | Correction of lung tumor dose using transit dose method. (C55). | 491240 |
| neoplasms | | Disposition of americium-241 oxide following inhalation by beagles. (C21). | 491017 |
| Clinical estimation of temporal dose distribution in lung cancer radiotherapy. (C63). | 484765 | Distribution of fallout plutonium in southern Finns. (C21, C22). | 473074 |
| Combined therapy of lung cancer by pre-operation fractionated irradiation. (C63). | 494591 | Evaluation of the health hazard from inhaled krypton-85. (C21). | 473045 |
| Delayed effects of 25 MeV bremsstrahlung therapy of patients with peripheral lung cancer. (C63). | 482491 | Internal dosimetry program in a plutonium facility. (C21, C54). | 473058 |
| Experience in lung cancer therapy by 24 MeV bremsstrahlung. (C63). | 482489 | Local dose to lung tissue from inhaled $^{238}\text{PuO}_2$ particles. (C21; Hamsters). | 469745 |
| Immunologic assessment of patients with pulmonary metaplasia and neoplasia. (C21; Effects of smoking and uranium mining on immunity). [Data] | 473055 | Measurements of ^{241}Am in vivo at long times after inhalation. (C21). | 479967 |
| Inhaled uranium ore dust in beagle dogs. (C21). | 473047 | Pulmonary connective tissue modifications induced by internal α irradiation. Effect of time and dose on alterations following inhalation of plutonium-239 dioxide aerosol in rat. (C21). | 469771 |
| Late effects of inhaled $^{235}\text{Es}(\text{NO}_3)_3$ in the rat. (C21). [Data] | 473037 | Radiation dose estimates due to air particulate emissions from selected phosphate industry operations. (C21, B33; Lung doses to individuals and populations in vicinity of Florida fertilizer plant). [Data] | 469781 |
| Lung cancer in man in relation to different time distribution of radiation exposure. (C15). | 487259 | Respiratory tract tumors in Syrian hamsters following inhalation of Pu-ZrO_2 particles. (C21; Comparison with incidence of lung tumors following intravenous injection of $\text{PuO}_2/\text{ZrO}_2$ microspheres). [Data] | 473099 |
| Mine radiation control efforts are waged on variety of fronts. (C54, B31, C21). | 480182 | radiation injuries | |
| Nonuniform pre- and postoperation irradiation in combined lung cancer therapy. (C63). | 494606 | Effects of dextran sulfate on pulmonary radiation injury. (C15, C14). [Data] | 476592 |
| Pre-operation therapy of lung cancer by 25 MeV bremsstrahlung. (C63). | 482477 | Hazard-function method of resolving radiation dose-response curves. (C15, C55, C21). | 487273 |
| Roentgenological picture of lungs and mediastinum in delayed period after lung cancer therapy. (C63). | 494598 | Malignancy of transplanted hamster lung lesions induced by inhaled $^{239}\text{PuO}_2$. (C21). [Data] | 473072 |
| Significance of pre-operation radiotherapy in treatment of lung cancer. (C63). | 494615 | Metabolism and microdistribution of californium-252, intratracheally administered to rats, and its effect on parenchyma of lungs. (C21). | 484587 |
| Total focal dose and time factor in lung cancer radiotherapy. (C63). | 482486 | radioactivity | |
| Toxicological comparison of high-fired and air-oxidized $^{239}\text{PuO}_2$. (C21). [Data] | 473087 | Concentrations of ^{137}Cs , ^{210}Po , and ^{239}Pu in tissues of Lapps. Preliminary report. (C21, C22; Comparison with concentrations in tissues of southern Finns). [Data] | 473075 |
| pathological changes | | Contamination of the human food chain by uranium mill tailings piles. (C22, C21, C52). | 494348 |
| Alteration by lung lavage of the biological effects from inhalation of a relatively insoluble form of ^{144}Ce by beagle dogs. (C21). | 469779 | Distribution of fallout plutonium in southern Finns. (C21, C22). | 473074 |
| Biological effects of chronic inhalation of coal mine dust and/or diesel engine exhaust in rodents. (C52; Rats). [Data] | 473235 | In vivo counting at selected uranium mills. Final report, February-September 1977. (C21, C54, E41). | 491022 |
| Biological effects of repeated exposure of beagle dogs to relatively insoluble aerosols of ^{144}Ce . IV. (C21). | 469738 | Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] | 473064 |
| Biological effects of repeated inhalation exposure of Syrian hamsters to aerosols of $^{239}\text{PuO}_2$. III. (C21). | 469768 | radioisotope scanning | |
| Comparison of the effects of inhaled alpha- and beta-emitting radionuclides on pulmonary function of the dog. (C21). | 469770 | Complex radioisotope diagnosis of lung diseases. (C62). | 482416 |
| Estimation of functional changes in lungs by tracer technique. (C62). | 482412 | Diagnostic significance of angioplumonography and scanning for thoracic surgery clinic. (C62, C61). | 482338 |
| Local distribution of collagen in Syrian hamster lungs after inhalation of $^{238}\text{PuO}_2$ particles. (C21). | 469743 | Radioisotope diagnosis of lung diseases in experiment with application of new labelled albumin. (C62). | 482380 |
| Occurrence and lobar distribution of lung cancer in Syrian hamsters induced by intratracheal administration of ^{210}Po . (C21). | 469755 | Radioisotope investigations of external respiration and pulmonary hemodynamics in patients with lung cancer. (C62). | 482340 |
| Repeated inhalation exposure of beagle dogs to aerosols of $^{239}\text{PuO}_2$. (C21). | 469744 | Radioisotope scanning in case of dust pathology of lungs. (C62). | 482344 |
| Repeated inhalation exposure of mice to aerosols of $^{239}\text{PuO}_2$. II. (C21). | 469769 | Radiopulmonological and roentgenofunctional investigations in chronic inflammatory-suppurative diseases of lungs. (C62). | 482369 |
| Repeated inhalation exposure of Syrian hamsters to $^{144}\text{CeO}_2$. III. (C21). | 469766 | Roentgenological and radioisotope investigations of lung blood circulation and ventilation using pharmacologic drugs and functional loads. (C62, C61). | 482384 |
| Toxicity of ^{144}Ce inhaled in a relatively insoluble form by aged beagle dogs. VI. (C21). | 469753 | radionuclide kinetics | |
| Toxicity of ^{144}Ce inhaled in a relatively insoluble form by immature beagle dogs. VI. (C21). | 469737 | Absorption and retention of plutonium-238 nitrate and oxide in neonatal swine after inhalation. (C21). | 473098 |
| Toxicity of ^{91}Y inhaled in a relatively insoluble form by beagle dogs. VIII. (C21). | 469758 | Concentrations of ^{137}Cs , ^{210}Po , and ^{239}Pu in tissues of Lapps. | |

- Preliminary report. (C21, C22; Comparison with concentrations in tissues of southern Finns). [Data] 473075
- Internal dosimetry data and methods of ICRP. Part 1. (C21, D15). 487285
- Lead distribution and effects during development in the rat. (C21; ^{210}Pb). 461092
- Plutonium in tissues of reindeer during 1963-1977: the gastrointestinal absorption from food. (C21, C22). [Data] 473064
- Toward an optimal DTPA therapy for decorporation of actinides: time-dose relationships for plutonium in the dog. I. (C21). 491020
- Toxicology of fractionated, inhaled $^{239}\text{PuO}_2$. (C21; Rats). [Data] 473088
- radiosensitivity**
- Radiobiological considerations in the use of total-body irradiation for bone-marrow transplantation. (C15, C63; Ablation of bone marrow stem cells prior to transplant in treatment of leukemia). 473020
- retention functions**
- Distribution, retention, and elimination of pyrene in rats following inhalation. (C52). 469940
- Influence of ^{239}Pu aerosol production temperature on biological responses in Chinese hamsters. (C21). 469739
- Rapid spectrofluorometric method for the analysis of polycyclic aromatic hydrocarbons in animal tissue. (C52). 469941
- Repeated inhalation exposure of rats to aerosols of $^{144}\text{CeO}_2$. I. (C21). 469767
- Toxicity of inhaled ^{144}Ce fused aluminosilicate particles in BALB/C mice. II. (C21). 469754
- scintiscanning**
- ^{75}Se -sodium selenite as a diagnostic aid in the assessment of peripheral pulmonary opacities. (C62). 473495
- Abnormal gallium scan patterns of the salivary gland in pulmonary sarcoidosis. (C62). 461415
- Clinical studies on hemodynamic assessments of valvular heart disease by means of radiopulmonary cardiography (RPCG). (C62). 476788
- Clinical/usefulness of gallium-67 lung scan in diffuse interstitial lung diseases of various etiology. (C62). 473451
- Computerized double-tracer subtraction scanning with Gallium-67 citrate in inflammatory diseases. (C62). 470086
- An evaluation of inhalation and perfusion scintigraphy with $\text{sup}(81\text{m})\text{Kr}$. (C62). 470166
- Gallium 67 lung scanning. Method, practical procedures, clinical applications. (C62). 482366
- Gated and cinematic perfusion lung imaging in dogs with experimental pulmonary embolism. (C62; /sup 99m/Tc-macroaggregated albumin and -microsphere scanning). 487673
- Granulometric studies of radioactive aerosols in pulmonary scintigraphy using diffusion analysis diagram of laser light. (C31). 473127
- Improved radioaerosol administration system for routine inhalation lung imaging. (C62, C21; /sup 99m/Tc-DTPA or /sup 99m/Tc-sulfur colloid). 473434
- Improved radionuclide method for the diagnosis of gastroesophageal reflux and aspiration in children (milk scan). (C62, C61; /sup 99m/Tc-sulfur colloid-milk mixture). 487694
- Krypton-81m: a better radiopharmaceutical for assessment of regional lung function in children. (C62, C31). 494532
- Lung changes resulted from traumas and shock (according to scintiscanning data). (C62). 482347
- Lung scintiscanning with oxygen 15 labelled carbon monoxide. (C62). 491313
- Lung ventilation-perfusion scintigraphy in pulmonary embolism. (C61). 491271
- Nuclear medicine, 1978. (C62, C61). 473404
- On perfusion pulmonary scintigraphy. (C62). 482451
- Quantitative assessment of ventilation-perfusion mismatch by radionuclide imaging of lung. (C62). 473441
- Radioisotope applications in pneumology. (C62, C21). 482425
- Radioisotope lung scanning and the chest radiograph in pulmonary disease. Chapter 12. (C62). 487708
- Radionuclide venography and lung scanning: concise communication. (C62; /sup 99m/Tc-serum albumin microsphere venography and ^{133}Xe ventilation scintiscanning). 473400
- The regional exploration of pulmonary function using xenon 133. Value of the gamma camera connected to a computer. (C45). 461156
- Resolution rates of pulmonary embolism assessed by serial positron imaging with inhaled O-15-labeled carbon dioxide. (C62). 473467
- Subdiaphragmatic adiposity mimicking ascites by liver-lung scintigraphy. (C62; /sup 99m/Tc-macroaggregated albumin and /sup 99m/Tc-sulfur colloid). 487725
- V/Q mismatches unassociated with pulmonary embolism: case report and review of the literature. (C62; ^{133}Xe ventilation scans and /sup 99m/Tc-MAA perfusion scans). 470130
- Ventilation-perfusion lung imaging in diaphragmatic paralysis. (C62; /sup 80m/Kr ventilation imaging and /sup 99m/Tc-MAA perfusion imaging). 466407
- Xenon in the gastric fundus: potential pitfall in ventilation scan interpretation. (C62, C21; Abnormal scan resulting from swallowing of ^{133}Xe by patient). 473458
- spatial dose distributions**
- Tumorigenic hazard of particulate α activity in Syrian hamster lungs. (C21; Comparison of intratracheal ^{210}Po solutions with intravenous ^{147}Pm - and ^{238}Pu -microspheres). [Data] 476603
- swelling**
- Radiological features of pulmonary oedema. (C61). 482288
- tracer techniques**
- Pulmonary studies. (C62). 484750
- Radioisotope applications in pneumology. (C62, C21). 482425
- Short-life radionuclides and regional lung function. (C62). [Data] 473440
- water**
- Continuous analysis of deuterated water in the blood circulation: application to the determination of the pulmonary extravascular water. (C31). 469821
- x-ray detection**
- Interlaboratory comparison of techniques for measuring lung burdens of low-energy photon-emitters. (C55, C21). [Data] 461361
- x-ray dosimetry**
- Computer program for organ doses in diagnostic radiology. Final report May 78. (C15, C61). 472989
- xenon 133**
- Quantitative regional ventilation and perfusion investigations with ^{133}Xe . (C62). 461412
- LUPUS:**
- antigen-antibody reactions**
- Radioimmunological determination of soluble immune. (C62). 476792
- LUTEINIZING HORMONE:**
- See LH
- LUTEOTROPIC HORMONE:**
- See LTH
- LUTETIUM:**
- absorption spectra**
- Systematic comparisons between the 4d spectra of lanthanide atoms and solids. (A12). [Data] 488888
- activation analysis**
- Harrisburg $1^0 \times 2^0$ NTMS area, Pennsylvania: data release. (B31, B11; NURE program). 465770
- crystal growth**
- Single crystals of rare earth metals, alloys and intermetallic compounds. (B21, B24). 479353
- dilute alloys**
- Electrical resistivity of dilute heavy rare earths in Lu. (A13, B22). 488931
- electric conductivity**
- Electrical resistivity of dilute heavy rare earths in Lu. (A13, B22). 488931
- electric fields**
- The electric field gradient at ^{175}Hf nuclei aligned in a Lu single crystal at low temperatures. (A13). [Data] 488973
- physical radiation effects**
- Defect annealing in the hexagonal close packed heavy rare earth metals Gd, Tb, Dy, Ho, Er, Tm and Lu after electron irradiation at low temperatures. (B25). [Data] 469420
- quantitative chemical analysis**
- Spark-source mass-spectrometric sensitivity factors for elements in a graphite matrix. (B11). [Data] 468676
- LUTETIUM ALLOYS:**
- charged-particle transport**
- LAMPF results on μ^+ diffusion in metals. (A32, B22; Depolarization rate). 486177
- crystal field**
- Indirect evidence for exchange modification of the conduction bands in RAI_2 compounds. (B22). 490571
- exchange interactions**
- Indirect evidence for exchange modification of the conduction bands in RAI_2 compounds. (B22). 490571
- intermetallic compounds**
- NMR study of intermetallic compounds LuX . (A13; X=Cu, Ag, Au, Pd, Rh, Ir). 477930
- knight shift**
- NMR study of intermetallic compounds LuX . (A13; X=Cu, Ag, Au, Pd, Rh, Ir). 477930
- magnetic properties**
- Magnetic properties of amorphous alloys of Fe with La, Lu, Y, and Zr. (B22). 465598
- magnetostriction**
- Magnetostriction of single crystals of intermetallic R_2Co_{17} (R = Ho, Er, Tm, Lu) compounds. (B12). 475940
- moessbauer effect**
- Magnetic properties of amorphous alloys of Fe with La, Lu, Y, and Zr. (B22). 465598
- LUTETIUM BORIDES:**
- ferromagnetism**
- Interaction between superconductivity and magnetism in the pseudoternary system (Lusub(1-x)Hosub(x)) Rh_4B_6 . (B24, A17). 472721
- superconductivity**
- Interaction between superconductivity and magnetism in the pseudoternary system (Lusub(1-x)Hosub(x)) Rh_4B_6 . (B24, A17). 472721
- LUTETIUM CARBIDES:**
- superconductivity**
- Superconductivity of lutetium sesquicarbide. (A17, A13). 467999
- LUTETIUM COMPLEXES:**
- molecular structure**
- Interactions of Lasup(III), Ndsup(III) and Lusup(III) ions with aspartic acid and asparagine in aqueous solutions. (B12). 493649
- potentiometry**
- Complex formation of trace elements in geochemical systems. (B12, B31). [Data] 460440
- precipitation**
- The precipitation of lanthanide elements complexes with hexammine cobalt(III) cation. (B12). [Data] 468838
- LUTETIUM COMPOUNDS:**
- See also LUTETIUM BORIDES; LUTETIUM CARBIDES; LUTETIUM FLUORIDES; LUTETIUM HYDRIDES; LUTETIUM OXIDES; LUTETIUM SELENIDES

- chemical preparation**
Synthesis and properties of electrochemically oxidized diphthalocyanines of rare earths and americium. (B12, B13). 493667
- chemical reactions**
Interactions of Lasup(III), Nd^{sup}(III) and Lusup(III) ions with aspartic acid and asparagine in aqueous solutions. (B12). 493649
- ion ions**
Zero-field splitting of the ground state s ion in calcite type borates. (A13). 481083
- magnetization**
Magnetic properties of hypovanadates of rare-earth elements having pyrochlorine structure. (A13). 464128
- pyrolysis**
On thermal decomposition of carbamide compounds of propionates of thulium, ytterbium and lutetium. (B12). 493696
- structural chemical analysis**
On hexagonal perovskites with cationic vacancies. 5. (B12). [Data] 465429
- trigonal lattices**
On hexagonal perovskites with cationic vacancies. 5. (B12). [Data] 465429
- LUTETIUM FLUORIDES:**
- chemical reactions**
Complex formation of trace elements in geochemical systems. (B12, B31). [Data] 460440
- LUTETIUM HYDRIDES:**
- adsorption**
Photons as a probe of hydrogen in metals: photoelectron and optical studies. (B23). 472708
- dissociation energy**
Potential energy curves and dissociation energies of hydrides, deuterides, oxides and fluorides of some rare earth elements. (B12). [Data] 484066
- electronic specific heat**
Electronic specific heats in metal-hydrogen systems. (B23). 486953
- electronic structure**
Electronic structure of metal hydrides. I. Optical studies of ScH₂, YH₂, and LuH₂. (B23). 486975
- optical properties**
Photons as a probe of hydrogen in metals: photoelectron and optical studies. (B23). 472708
- potential energy**
Potential energy curves and dissociation energies of hydrides, deuterides, oxides and fluorides of some rare earth elements. (B12). [Data] 484066
- LUTETIUM IONS:**
- energy-level transitions**
Identification of 5g and 6g terms and revised ionization energies in the Yb II 4f¹⁴nl isoelectronic sequence. (A12). [Data] 464097
- LUTETIUM ISOTOPES:**
See also LUTETIUM 172; LUTETIUM 175; LUTETIUM 176; LUTETIUM 177
- LUTETIUM OXIDES:**
- crystal growth**
Lu₂O₃-Ln₂O₃ crystallization by the Verneuil method. (B12). 493606
- emission spectra**
XPS studies of the charging effects for the non-conducting rare-earth oxides. (A12). 477804
- LUTETIUM SELENIDES:**
- specific heat**
Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- superconductivity**
Experiments on the coexistence of superconductivity and long-range magnetic order in ternary rare earth compounds. (B24, A17). 481874
- LUTETIUM 172:**
- electron capture decay**
Levels in ¹⁷²Yb from the ¹⁷²Lu β-decay. (A34). [Data] 475814
- LUTETIUM 175:**
- energy-level transitions**
Investigation of hyperfine structure and isotope shift of the 605.5nm-line of Lu¹⁷⁶ by laser spectroscopy. (A12, A34). [Data] 467277
- hyperfine structure**
Influence of radiation damage evolution on hyperfine interactions of implanted impurities: ¹⁶⁹Tm and ¹⁷⁵Lu in Fe. (A13). 459833
- magnetic dipole moments**
Current densities in the projected Hartree-Fock approach. I. Magnetic moments. (A33). 490089
- rotational states**
E2-transitions of ΔK=1 in odd deformed nuclei. (A33). 465038
- LUTETIUM 176:**
- energy-level transitions**
Investigation of hyperfine structure and isotope shift of the 605.5nm-line of Lu¹⁷⁶ by laser spectroscopy. (A12, A34). [Data] 467277
- LUTETIUM 176 TARGET:**
- alpha reactions**
High-spin states of the doubly odd nucleus ¹⁷⁸Ta. (A34). 468471
- LUTETIUM 177:**
- excited states**
Lifetimes of ¹⁷⁷Lu excited states. (A34). 490124
- LWBR TYPE REACTORS:**
- fasteners**
Out-of-pile corrosion of zircaloy fasteners containing non-pickled threads (LWBR Development Program). (E35, B15). 488147
- fuel cans**
Corrosion of Zircaloy-4 tubing in 68OF water (LWBR development program). (B15, E35). 465501
- Effect of fuel chips on cladding stress in zircaloy clad oxide fuel rods (LWBR development program). (C52, E35). 482246**
- Sources of internal hydriding in unirradiated thorium-fueled Zircaloy rods (LWBR Development Program). (E35). 480678**
- fuel channels**
Critical heat flux experiments with a local hot patch in an internally heated annulus (LWBR development program). (E35). 473976
- fuel management**
ASBLT: a system of DATATRAN MODULES which process core fuel loading for use in as-built calculations (LWBR Development Program). (E35). 488120
- fuel pellets**
Development of a powder milling technique for making high density ThO₂-UO₂ pellets (LWBR development program). (E35, B23). 461768
- fuel rods**
Brazing of AM-350 stainless steel LWBR fuel rod support grids (LWBR Development Program). (E35). 480681
- Free-hanging bow measurements of LWBR fuel rods (LWBR Development Program). (E35). 488124**
- Fuel rod welding (LWBR development program). (E35). 473949**
- LWBR automated fuel rod loading verification gage system (LWBR Development Program). (E35). 480692**
- Radiological control aspects of the fabrication of the Light Water Breeder Reactor core (LWBR Development Program). (E35). 488164**
- Summary of the fuel rod support system (grids) design for LWBR (LWBR development program). (E35). 488163**
- Ultrasonic testing of nuclear fuel rod welds and clad (LWBR Development Program). (E35). 480679**
- reactor cores**
MDSFP: a computer program for elastic solution of three dimensional structures by the finite element method (LWBR development program). (E35). 488131
- reactor fueling**
ASBLT: a system of DATATRAN MODULES which process core fuel loading for use in as-built calculations (LWBR Development Program). (E35). 488120
- reactor materials**
Enhanced in-reactor stress relaxation of AM-350 stainless steel. (B22, E35). 460719
- spent fuel elements**
Iodine and cesium in oxide fuel pellets and zircaloy-4 cladding of irradiated fuel rods (LWBR Development Program). (B11). 486513
- supports**
Summary of the fuel rod support system (grids) design for LWBR (LWBR development program). (E35). 488163
- transient overpower accidents**
Effect of fuel chips on cladding stress in zircaloy clad oxide fuel rods (LWBR development program). (C52, E35). 482246
- LWGR TYPE REACTORS:**
See also BELOYARSK-I REACTOR; LENINGRAD-I REACTOR; N-REACTOR
- fuel elements**
Aspects of fuel element reliability for WWER and Soviet channel-type reactors. (E32, E33). 491906
- iterative methods**
Choice of an optimal variant of the alternating direction method for calculation of two-dimensional reactor models. (E21). 487951
- neutron flux**
Development of the method surface pseudosources for the calculation of neutron fields in the RBM-K reactor cells. (E21). 487974
- LYASES:**
See also CARBONIC ANHYDRASE
- guanosine**
A sensitive method for the assay of guanylate cyclase activity. (C45). 469876
- guanylic acid**
A sensitive method for the assay of guanylate cyclase activity. (C45). 469876
- radioassay**
Practical radiochromatographic assay for cholesterol epoxide hydase. (C62; ¹⁴C tracer technique). 476783
- LYMAN ALPHA EMISSION:**
See LYMAN LINES
- LYMAN ALPHA RADIATION:**
See LYMAN LINES
- LYMAN CONTINUUM:**
See LYMAN LINES
- LYMAN LINES:**
(Includes all aspects of the transitions associated with Lyman lines.)
- line broadening**
Effect of fine-structure splitting on the shape of the Lyman α line profile on high-z emitters in ultra dense plasmas. (A14). 483366
- Study of ion dynamic effects on Lyman and Balmer hydrogen lines. (A14). [Data] 471681**
- line widths**
Profile of the Lyman α line in the presence of an argon plasma. (A14). 474971
- LYMAN SERIES:**
See LYMAN LINES
- LYMPH NODES:**
- abscopal radiation effects**
Metastatic cancer in guinea pigs irradiated with grenz rays. (C14). 466136

biological radiation effects

- Biological and environmental behavior of plutonium. (C21, B33, C22, C52; Risk of cancer fatalities in populations exposed by dispersal of reactor plutonium). 473044
- Effect of total lymphoid irradiation (TLI) on the primary and secondary antibody response to sheep red blood cells. (C14; Mice, x radiation). 487232
- Lymphatic node cellular response to whole-body irradiation in immunized or non-immunized calves. (C14). 466029

biomedical radiography

- Combined application of lower lymphography and selective lumbar venography to differential diagnosis of retroperitoneal lymph node injuries. (C61). 480261

graft-host reaction

- Experimental hypoplastic marrow failure in the mouse. (C14). 463137

local irradiation

- Adjuvant radiation therapy for regional nodal metastases from malignant melanoma. A randomized, prospective study. (C15; Complications of local nodal irradiation). 469689

metastases

- Evaluation of fast neutron beam teletherapy of metastatic cervical adenopathy from squamous cell carcinomas of the head and neck region. (C15, C63; Comparison of efficacy and complications of fast and neutron and mixed (γ + neutron) beam therapy). 461068

- Technetium-99m sulfur-colloid cutaneous lymphoscintigraphy in the management of truncal melanoma. (C62). 473462

radiation doses

- Biological and environmental behavior of plutonium. (C21, B33, C22, C52; Risk of cancer fatalities in populations exposed by dispersal of reactor plutonium). 473044
- Distribution of americium-241 oxide following inhalation by beagles. (C21). 491017

- [Data] Distribution of fallout plutonium in southern Finns. (C21, C22). 473074

- The effect of cobalt-irradiation on the lymph nodes detected by lymphangiography in malignant lymphomas. (C63). 494609
- Measurements of ^{241}Am in vivo at long times after inhalation. (C21). 479967

radioactivity

- Distribution of fallout plutonium in southern Finns. (C21, C22). 473074

- [Data] Thorotrast associated hepatic angiosarcoma with 36 years latency. (C21). 461112

radiotherapy

- Changes in lymph node size following systemic irradiation for malignant lymphoma. (C63, C15). 476817

scintiscanning

- Evaluation of a new component used for isotopic lymphography: colloidal rhenium sulfide sup(99m)Tc labelled. (C45). 463348
- Exploration of inner mammary chains by isotopic lymphography. (C45). 463333
- Quantitative lymphoscintigraphy for detection of metastases to the internal mammary lymph nodes. (C61). 461369

volume

- The effect of cobalt-irradiation on the lymph nodes detected by lymphangiography in malignant lymphomas. (C63). 494609

LYMPH VESSELS:**biomedical radiography**

- Combined application of lymphography and thermography to definition of relapses of uterine cervix carcinoma. (C61, C62). 480217
- Lymphatics filled at knee arthrography. (C61). 480229
- New aspects of clinical lymphography. (C61). 480256
- Pathology of thoracic lymph duct. (C61). 480232

contrast media

- Lymphatics filled at knee arthrography. (C61). 480229

delayed radiation effects

- Late effects of radiotherapy on the lymph system examined by lymphography. (C15). 479905

flow rate

- Late effects of radiotherapy on the lymph system examined by lymphography. (C15). 479905

radioisotope scanning

- Clinical estimation of radioisotope lymphography in patients with neoplasms (3000 cases). (C62). 482332

scintiscanning

- Technetium-99m sulfur-colloid cutaneous lymphoscintigraphy in the management of truncal melanoma. (C62). 473462

thermography

- Combined application of lymphography and thermography to definition of relapses of uterine cervix carcinoma. (C61, C62). 480217

LYMPHATIC SYSTEM:

See also LYMPH NODES; LYMPH VESSELS; THYMUS

biological radiation effects

- Adjuvant radiation therapy for regional nodal metastases from malignant melanoma. A randomized, prospective study. (C15; Complications of local nodal irradiation). 469689
- Methods for induction of permanent graft survival. (C14). 466105
- Morphological reactions of lymphoid tissue induced by ionizing radiation. (C14). 479870

- Transplantation of bone marrow in outbred dogs without graft-versus-host disease using total lymphoid irradiation. (C14). [Data] 479857

- Treatment of Stages I and II cancer of the cervix: analysis of 5 year survival and recurrence rates. (C15, C63, C64; Effects of surgery an incidence of complications following radiotherapy). 494375

fluid flow

- Technetium-99m sulfur-colloid cutaneous lymphoscintigraphy in the management of truncal melanoma. (C62). 473462

immune reactions

- The role of the thymus for maturation of transferred bursa cells into immuno-competent B cells in chickens treated with cyclophosphamide. (C14). [Data] 463133
- Transplantation of bone marrow in outbred dogs without graft-versus-host disease using total lymphoid irradiation. (C14). [Data] 479857

scintiscanning

- Lymphoscintigraphy: a comparison of $^{99\text{Tc}}\text{sup}(m)$ antimony sulphide colloid and $^{99\text{Tc}}\text{sup}(m)$ stannous phytate. (C62, C21). [Data] 491320

- Study of objective signs of chronic lymphedema of the lower limbs. (C62). 482365

LYMPHOBLASTOMAS:

See LYMPHOMAS

LYMPHOCYTES:**autoradiography**

- An autoradiographic microtechnique to study lymphocyte stimulation in solid cultures. (C45). 469877

biological radiation effects

- ^3H -uridine incorporation in lymphocytes of externally irradiated rats. (C14). 494292
- Biometric indices of recirculating lymphocytes after acute and chronic gamma-irradiation. (C14). 484516
- Changes of adenine nucleotides content of human lymphocytes and granulocytes following gamma-irradiation. (C11). [Data] 494262
- Changes of adenylate energy charge of hog blood lymphocytes, platelets and erythrocytes following gamma irradiation. (C11). 469586

- Dynamics of nuclear changes in peripheral lymphocytes from patients undergoing radiotherapy. (C15). 466156

- Effect of ionizing radiation on the energy metabolism of hog lymphocytes. (C11; Gamma radiation, neutrons). 469595

- Effect of neutron irradiation on adenine nucleotides content of pig blood lymphocytes. (C11). [Data] 494271

- Effects of radiotherapy on immunity in patients with localized carcinoma of the cervix uteri. (C15, C63, C64; ^{137}Cs interstitial therapy + megavoltage external pelvic irradiation). 461069

- Further characterization of suppressor lymphocytes induced by fetal calf serum in murine lymphoid cell cultures: comparison with in vitro-generated cytotoxic lymphocytes. (C11; X Radiation). [Data] 472909

- Genetic studies of the HLA-D region by the primed lymphocyte test. (C11; Gamma radiation). 460961

- HLA-DR-specific suppressor cells after repeated allogeneic sensitizations of human lymphocytes in vitro. (C11; Gamma radiation). 460996

- Identification of an MLC suppressor cell population in acute leukemia. (C11; Gamma radiation). 460952

- Indium-111 labeling of leukocytes: a detrimental effect on neutrophil and lymphocyte function and an improved method of cell labelling. (C21, C62, B13). 469786

- Irradiation potentiation of cellular transfer of EAE: time course and locus of effect in irradiated recipient Lewis rats. (C14; Gamma radiation). 461053

- Mixed lymphocyte reaction in mice genetically selected for high (Hi/PHA) or low (Lo/PHA) responsiveness to phytohemagglutinin. (C11; Gamma radiation). [Data] 487182

- Natural radioactivity in Southwest France and its possible genetic consequences for mammals. (C14, B31; Incidence of chromosomal aberrations in lymphocytes and spermatocytes of rabbits and mice, respectively). 472964

- Progress in developing a fully portable blood irradiator. (E41). [Data] 474089

- Radiation activation and inhibition of adenylate cyclase in murine spleen lymphoid cells. (C14). 466003

- Recovery of Epstein-Barr virus from nonproducer neonatal human lymphoid cell transformants. (C11; X radiation). [Data] 494275

- Repetitious nature of repaired DNA in mammalian cells. (C11; UV radiation, ^3H and ^{14}C tracer techniques). [Data] 472922

- Specific suppression of alloimmune responses by antigen. (C11; UV radiation). 465873

- Status of human chromosome aberrations as a biological radiation dosimeter in the nuclear industry. (C15, C21). 469682

- Synergy among rat T cells in the proliferative response to alloantigen. (C11; X Radiation). [Data] 472927

- Tritium suicide selection of mammalian cell mutants defective in the transport of neutral amino acids. (C11; Mouse lymphocytes). 472903

biological recovery

- Functional and morphological recovery of the T-cell compartment in lethally irradiated and reconstituted mice. (C14). [Data] 490961

biological regeneration

- Dynamics of post-irradiation regeneration of β -lymphocytes depending on T-cells content in organism. (C14). 479876

biological repair

- Modifying effect of sodium cyanide under irradiation of man lymphocytes at different mitosis stages. (C11). 479771

cell cultures

- A ^3H -thymidine paper strip method for stimulation of lymphocytes. I. (C62). 470158

cell membranes

- Differential radiolabelling of lymphocyte membrane alloantigens and immunoglobulins: variation of H_2O_2 concentration during lactoperoxidase catalyzed cell surface radio iodination. (C45). 494375

- cell proliferation**
Fifth annual report of cancer research at the University of Chicago. (C11, C62, C15). 472901
Lymphoblastogenesis in response to phytohemagglutinin in radium patients: quantitative aspects and reproducibility. (C21; ²²⁶Ra). 479960
[Data] 479960
Properties of reticulum cell sarcomas in SJL/J mice VII. Nature of normal lymphoid cells proliferating in response to tumor cells. (C11; X radiation). [Data] 472911
- chromosomal aberrations**
Chromosome aberrations induced in human lymphocytes by radiation from ²⁵²Cf. (C15). 463208
Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001
Homogeneous chromosomal radiosensitivity of human peripheral blood lymphocytes. (C11). 484462
New trends and techniques in chromosome aberration analysis. (C15). 461064
- colchicine**
Radiation- and colchicine-induced endoreduplications at different stages of cell cycle of man lymphocytes. (C11). 479758
- dicentric chromosomes**
Characterization of feline whole-blood cultures and determination of the frequency of radiation-induced dicentrics in human and feline lymphocytes. (C11). [Data] 476524
- dose-response relationships**
Calculation of the dose-rate dependence of the dicentric yield after Co γ -irradiation of human lymphocytes. (C11). [Data] 463036
Dose-response relations for dicentric yields in G₀ lymphocytes of man and crab-eating monkey following acute and chronic γ -irradiations. (C11). 484467
- early radiation effects**
An attempt to assess radiation damage from low-level doses of gamma rays using peripheral lymphocyte morphologic and quantitative parameters. (C14). 465998
- fluorescence**
Fluorescence study of thymus lymphocytes of X-irradiated mice and their progeny. (C14). [Data] 482052
- gamma radiation**
High radiosensitivity of induction in contrast to radioresistance of expression of cells mediating delayed-type hypersensitivity during response to sheep red blood cells in mice. (C14, C11). [Data] 490965
Radiation- and colchicine-induced endoreduplications at different stages of cell cycle of man lymphocytes. (C11). 479758
- genetic radiation effects**
Sensitivity of human peripheral lymphocyte chromosomes to various X-ray doses and subsequent storage in Plexiglass or glass containers. (C11). 494264
- genetics**
Genetic studies of the HLA-D region by the primed lymphocyte test. (C11; Gamma radiation). 460961
- hydrogen peroxide**
Differential radiolabelling of lymphocyte membrane alloantigens and immunoglobulins: variation of H₂O₂ concentration during lactoperoxidase catalyzed cell surface radio iodination. (C45). 494375
- immune reactions**
Further characterization of suppressor lymphocytes induced by fetal calf serum in murine lymphoid cell cultures: comparison with in vitro-generated cytotoxic lymphocytes. (C11; X Radiation). [Data] 472909
HLA-DR-specific suppressor cells after repeated allogeneic sensitizations of human lymphocytes in vitro. (C11; Gamma radiation). 460996
Immunodeficiency with thymoma: failure to induce Ig production in immunodeficient lymphocytes cocultured with normal T cells. (C11; X radiation). 465910
Interaction of T- and B-lymphocytes in the immune response of lethally irradiated dogs thymus and part of bone marrow being shielded. (C14). 484528
Ontogeny of B-lymphocyte function. (C14). [Data] 472980
Pathobiochemical, hematological and immunological findings in pigs with an acute radiation syndrome showing only a few clinical symptoms. 3. (C14). 469660
Radiation and chemical effects on viral transformation and tumor antigen expression. Annual progress report, August 1, 1978 - May 1, 1979. (C12). 487191
Relationships among differentiated T-cell subpopulations. (C14). 472986
- immunosuppression**
Modulation of immune response by alloactivated suppressor T cells. (C14; X radiation). [Data] 465975
- irradiation**
Ultraviolet-induced DNA excision repair in human B and T lymphocytes. II. (C11). 484470
- labelling**
Differential radiolabelling of lymphocyte membrane alloantigens and immunoglobulins: variation of H₂O₂ concentration during lactoperoxidase catalyzed cell surface radio iodination. (C45). 494375
Indium-111 labeling of leukocytes: a detrimental effect on neutrophil and lymphocyte function and an improved method of cell labelling. (C21, C62, B13). 469786
Lymphocyte labelling technique for the exploration of kidney transplants. (B13). 484075
Sup(99m)Tc labelling of human lymphocytes by means of stannous pyrophosphate scintigraphic applications. (B13, C62). 486702
Sup(99m)Tc pyrophosphate labelling of human lymphocytes. In vivo study and immunological use. (B13). 484080
- low dose irradiation**
An approach to early evaluation of possible late effects of radiation. (C11). 481998
- metabolism**
Effect of ionizing radiation on the energy metabolism of hog lymphocytes. (C11; Gamma radiation, neutrons). 469595
Induction of interferon by levamisole in mice. (C14; X radiation). 472966
Lactoperoxidase catalyzed radioiodination of cell surface immunoglobulin: incorporated radioactivity may not reflect relative cell surface Ig density. (C21; ¹²⁵I). 466232
- phytohemagglutinin**
Time factor in PHA responsiveness of human blood lymphocytes after in vitro irradiation. (C15). 461063
- radiation doses**
Time factor in PHA responsiveness of human blood lymphocytes after in vitro irradiation. (C15). 461063
- radioimmunoassay**
In vitro cell-mediated immunity assay using ¹²⁵I-iododeoxyuridine. (C62; Rats, dogs). [Data] 473464
- radionuclide kinetics**
Lactoperoxidase catalyzed radioiodination of cell surface immunoglobulin: incorporated radioactivity may not reflect relative cell surface Ig density. (C21; ¹²⁵I). 466232
- radiosensitivity**
Modulation of immune response by alloactivated suppressor T cells. (C14; X radiation). [Data] 465975
- radiotherapy**
Study of T- and S-lymphocytes in oncologic patients undergoing chemi-radiotherapy. (C15). 466184
- sister chromatid exchanges**
Effects of various chemical agents on sister chromatid exchanges, chromosome aberrations, and DNA repair in normal and abnormal human lymphoid cell lines. (C11). 461001
- stimulation**
Lymphocyte response to phytohemagglutinin-stimulation after extended radiation therapy in Hodgkin's disease. (C15). 482066
Stimulation of allogeneic lymphocytes by skin epidermal cells in the rat. (C11; X radiation, mitomycin C). 479783
- LYMPHOGRANULOMA MALIGNUM:**
See HODGKINS DISEASE
- LYMPHOGRANULOMAS:**
See LYMPHOMAS
- LYMPHOGRANULOMATOSIS:**
See HODGKINS DISEASE
- LYMPHOID CELLS:**
See LYMPHOCYTES
- LYMPHOMAS:**
See also HODGKINS DISEASE; LYMPHOSARCOMAS
- cell cultures**
Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- fractionated irradiation**
Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- glycoproteins**
Demonstration of lactoferrin in tumor tissue from two patients with positive gallium scans. (C62, C21). 487696
- growth**
Accessory cell requirements for lymphoma growth in vitro and in irradiated mice. (C14; Gamma radiation). [Data] 472988
- inoculation**
Induction of tumor cell rejection in the low responsive YAC-lymphoma strain A host combination by immunization with somatic cell hybrids. (C11). 490919
- radiation effects**
Occurrence of non-Hodgkin's lymphoma after therapy for Hodgkin's disease. (C15, C63; Incidence following combined chemotherapy and radiotherapy). 473005
Ratio of cytochromes in radiation-induced leukemia cells of mice. (C14; x-ray). 461044
- radioisotope scanning**
Tumor imaging. (C62). 484740
- radionuclide kinetics**
Demonstration of lactoferrin in tumor tissue from two patients with positive gallium scans. (C62, C21). 487696
- radiotherapy**
Changes in lymph node size following systemic irradiation for malignant lymphoma. (C63, C15). 476817
Results of total body irradiation in the treatment of advanced non-Hodgkin's lymphomas. (C15). 476578
Total-body superficial electron-beam therapy using a multiple-field pendulum-arc technique. (C63, C15; Treatment of mycosis fungoides and other cutaneous lymphomas). 470206
The value of low-dose segmental or total body irradiation in generalized disease of the lymphoreticular system. (C63). 482479
Whole body surface electron irradiation in the treatment of mycosis fungoides. (C63, C15). 470198
- survival curves**
Inverse X-irradiation split-dose effect in a murine lymphoma cell line. (C11). 494277
- LYMPHOPENIA:**
radiation effects
Effects of radiotherapy on immunity in patients with localized carcinoma of the cervix uteri. (C15, C63, C64; ¹³⁷Cs interstitial therapy + megavoltage external pelvic irradiation). 461069
- LYMPHOPOIESIS:**
See LEUKOPOIESIS

LYMPHOSARCOMAS:**radiotherapy**

Total-body irradiation in advanced lymphosarcoma. (C63). 494585

whole-body irradiation

Total-body irradiation in advanced lymphosarcoma. (C63). 494585

LYOLUMINESCENCE:**dose-response relationships**

Increased lyoluminescence response of mannose on storage. (E41, B25). [Data] 463702

gamma dosimetry

Possible application of lyoluminescence in integral dosimetry. (E41). 485050

LYOPHILIZATION:**laboratory equipment**

Apparatus for freeze drying of biologic and sediment samples. (E42). 480795

LYSINE:**catabolism**Metabolism-oriented determination of lysine requirements of mature rats based on the catabolic rates of ¹⁴C- and ¹⁵N-labelled lysine. (C21, C44). 476621**radionuclide kinetics**

Studies on the distribution of radioactivity in the organism during constant intravenous infusion of tracer amino acids and on the calculation of the rate of tissue protein synthesis in rats. (C21). 476622

LYSOSOMES:**radiation injuries**

Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958

radiosensitivity

Ultrastructural and cytochemical study of membrane alterations in x-irradiated liver tissue from normal and vitamin E-deficient ducklings. (C14). 490958

LYSOZYME:**inactivation**

Ultraviolet and photodynamic inactivation of lysozyme. (C11). 476505

ultraviolet radiation

Ultraviolet and photodynamic inactivation of lysozyme. (C11). 476505

